

aattggaggt ctgttcaactg gtctctcttc tttctccatc gtcacacagaa tgcacctccc 240  
tagatctcac tctgtgattt cgagtggttg ctctgatacc aattgaaatt ctgataccag 300  
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<23> unsure at all n locations  
<400> 15424

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ttatacacg gatgtccggt tgagtccgtt aatatatcga gacgtctgaa aatgaaaaacg 180  
gaagctcgta ggaattcaa acgacaataa ctttttaatt ggaatgtcga ctgaatcggg 240  
taatatatcg agacgtcaa aattgagact agaagctctg agcaaattga aatgacaata 300  
actntataca cggatgtccg gatgagctcc gtaatatatc gagacgtcga aaatntagat 360  
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<210> 15415  
<211> 482  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15415

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cattcagaca tccgagtaaa aaattattgt cgttagaatt tgatacgagc ttcggttttc 180  
aatttgagc atctctcgct aaattgcgat aggtatcggg gcacccgaga naaaagtatt 240  
tgtcgtttca taattctaa agtttccgtt ttaaatctgg agtgtctcaa tatattacgg 300  
gactcaacgg gacatccgtg tataaagtta ttgtcatttc aatttgcga gagctctag 360  
tctcaattnt gagcgtctca atatatatc ccgaattcaat cggacatgag agtaanaagt 420  
tattgtcgtt tgaatttctt acgagcttcc gtnttcaatt tggagcgtct cgatatatta 480

<210> 15426  
 <211> 404  
 <212> DNA  
 <213> Glycine max

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 taggtagcaa gataccttag atatgcatgt atgttagcaaa aagataacct aaaaaatata 180  
 tatatatatg tatggttagca agataacctg gatatgcatg tatgtagcaa aaagataacct 240  
 cacaaaaatat atatatgtat gtttaggttag caagataacct tggatatgca tgtatatagc 300  
 aaaaataacct cacaaaaata tacacatggt taggttagcan aataacctcat gaaaaaaaaa 360  
 aaaaaccaac aagattaaga aataaaccaaa tgataatgat aaaa 404

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 <211> 440  
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 <213> Glycine max

<223> unsure at all n locations  
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 atatgaagag ctttgcttga ttgtcacaac ataatttcac ctattggatg tctctaaaact 240  
 tcaattcttg aaggagatat ttaattccaaa cgtgtgcaca agtagctgta cacatatact 300  
 tatactctac ttctgcacgg tgcagtaaca ttttgctttt tactcttnca agagacaata 360  
 ttccctccaa taggtacaca ataccacana atacagcatt tgtcaatagg cgagcttgcc 420  
 caacctatat cacaatatcc 440

<210> 15428  
 <211> 325  
 <212> DNA

<213> Glycine max

<400> 15428

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ttctgacaa agtatttg agtatttg agtatttg agtatttg agtatttg

ctctgacaag ccacatata agtattgagg gggtatccaa aagatggaca aaactttgtg 300

atgggtccaa gctcgtcccc ttctc 325

<210> 15419

<211> 371

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15429

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aaaagcttac taaggcacct gttctagctc ttctgaactt ttctaaaact tttagactag 180

aatgtgatgc ctctggagtg ggagttggag ctgttttgtt gcaagggtggg caccctattg 240

cttatttttag tgaacaactt catggtgcc aaccttaacta cccacctat gataaagagc 300

tctatgcctt aataagagca ctccgaactc gcgaacatta ccttggttcc aaggaattag 360

ccattcatag t 371

<210> 15430

<211> 437

<212> DNA

<213> Glycine max

<400> 15430

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caatagattt aaatatttg gaagccatag aacaaggacc ttatgttccc tctataatgg 180

ccggaagtgc aacaatatga aaacctatag cagattggac tgagggaagaa agaagattag 240

tataatataa ttacagggcc aataatatta ttacatctgc cctatgaata gatgaatact 300  
 ttagggtttc taattgtaaa agtggttaaag atatgtggga taactacaa gtaacacatg 360  
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<212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15431

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 tgggtcaaat tctgaggaga atctatggag acacagaaca taggaattgc aactctctga 180  
 tggatttcta cgtcgccac aagggttaac agctcaacaa aatcactgat aaggcgctga 240  
 ggaacataga acactcaga actgcatatt atgaggggtt tatcggtgtc gcttgcttct 300  
 ttgtaactga ctgaaaagtg cgttggcctc gtgctaacaa ccttctgtac cattcttgc 360  
 tgtgtgaaa cccatctgag tctcaccat ttgtaatata gaagaccgag actcngatac 420  
 ctgaatccca gtaa 484

<210> 15432  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15432

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 gaattaaatt gtatatacag gatcaatttg aactatgag taaaacttta aacttgcct 180  
 caacttaataa ttacacgaa attaactaat tccaccattg attaagttaa acaattcca 240  
 taaaaacaa aaactaatg aacttaact aatatgctnt attctgatag ahaatatatt 300  
 atctctttaa tgggaataa gtaaaatatt tagtttagatg aaatttcagg aatatgtta 360



atztatgtga tatttgatat acatgataga gaaagtaaat attatattaa ttcgcttaat 420  
 att 423

<110>  
 <111>

<112> DNA  
 <113> Glycine max

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 tttaacaaga atttactctc tggtaatcga ttaccagagg atgtaatcga ttaccagtgg 180  
 ccaaaaactga tttaacaacag ctattaaaat ttgaattcaa aatttgccct gtgtaatcga 240  
 ttacacatat atggtaatcg attaccagca gttctgaac cgtttaatto aaattntaca 300  
 gcttgtaatc gattacacat atactgtaat cgattaccag atcagattnt cagaaaatat 360  
 tctcaatagt cacatctttg tatgtggttc ttgaatggt atcanaggcc tatatatatg 420  
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<110> 15434  
 <111> 454  
 <112> DNA  
 <113> Glycine max

<123> unsure at all n locations  
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 catntgatg atgtcaagaa aggcattcat acaacattca tggaaaaata taaaccaaat 180  
 catgaagcaa gaacatgaa tataaaaaacc acatagtcaa ataacataat taatatttgt 240  
 tcaaacatat catgcaata aagaaatagt aaattgttca aatgtcataa taatatagat 300  
 tatntggata agtactaac atctatcagt cctaattctc ttctaattgt gtaaaaggta 360  
 tcttactta gttgtntct aaaaatgtct caagttgaat tttagtatct acaaatctca 420  
 aaacaacatc acctcttaca acatgatgtc taat 454

<210> 15435  
 <211> 457  
 <212> DNA  
 <213> Glycine max

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 tcaacatcttt tcaataaatg ctttgtgtaa tggattacat ggttttggtt atcgattacc 180  
 agtgacaagt tttgaataaa aatcaaaaaga tgtaactctt ccaatgggtt tctcaagatt 240  
 tctcaaggt tataactctt ccaatgtttt cttgaccaga catgaagagt ctataaaagc 300  
 aagaccttga cttgcattnt aagtacttga tataactttt catatatact tttacaacct 360  
 tgaatctct tgaaccatc atttgaactt cttctctctt tcttctctt gtcanaagct 420  
 nctgagttt tctgatttcc aaaccttggt atttcac 457

<210> 15436  
 <211> 440  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15436

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 tgttcgctta aaaaaaactc atacttttgt cttattatta attttcgtat tagaagttga 180  
 tataaaagta tgttggaaaa taaaataaaa tatttaaatt tgcaatgata gatagttttt 240  
 aaagatcaaa ttataattat atttaattaa ttatttggtc ttataattc tataatttat 300  
 acattctagt ttctatagtt cgaaattaat ctttctaagt ttataattt atatcttaat 360  
 tctctgggtt gttttatagt ctaaaattga ttatctagt tcttggaaat catattctaa 420  
 ttctttttta gctcttatga 440

<210> 15437  
 <211> 463





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 agagettcgg tattccattt cgagcatctc gatattattac gggactcaat cagacatccg 240  
 agtaaaaagt tattgtagtt tcaatttget cagggcttcg gttattccatt tcgagcgtct 300

cjagta

446

<210> 15442  
 <211> 480  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15442

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 tactcggatg tctgattgag tcccgtata tatcgagacg ctcgaaattg aataccgaag 180  
 ctctgagcaa attcaaacya caataaactt ttactcggat gtctgattga gtcccgtaat 240  
 atatcgagac gctcgaaatt gaataccgaa gcgctgagca aattcaaacy acaataaactt 300  
 ttactcggga tgtctgattg agtcccgtaa tatatcgaaa cgtcggaaat tgaatgttga 360  
 agctctgagc aaattcaaacy gacaataact ntntactcgg atgtctgatt gagtcccgt 420  
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<210> 15443  
 <211> 320  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15443

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 caddaatgtc caccagggtc cagcctatag ccttcttatg attcttgaga atagacaaca 180  
 acttctcttc ttgctcatca gcaagggagg caaatataat cactggaaaa gtctgctat 240

catccacata agcgtatctt aaatntgatg gcagaggctt caattctggt gtggcccgcct 300  
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111

<210> Mouse at a 1.1 kb fragment  
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 gaaagaattg aaagtcttga agaggcaata tgcggcacta ccaaaaacaag aaaaatgtag 180  
 ctttaccag cagtaattct tattagctnt tgtttatttg atttgggtaa tatagatago 240  
 taccaagata agcagaattt tattacaaaa gatttatcta ttgaagtctt atttatctt 300  
 ctttacataa ctatgcacca tctttcttctg tttctgtact ttagaatttc ataccgtata 360  
 gcagtatttt tatgagaaaa catattaaca tctgaattgt taaacattaa aaacatgtac 420  
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<210> 15445  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<400> 15445

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 tccattatcc agtaatatca tgcctctctt atttggacat tgagaagcaa tatgaccaac 180  
 tctttgatcc ctgaaacatt tgatactatg ggatctagaa gatgaattaa tttccatttt 240  
 accttttaggt gcagcacatg aatttttggc cttagcttca tcttttgaact ttgtcataga 300  
 attctctgtt ttccaatttg acctccatga ataagtggaa tcaaatttgg aagtactctt 360  
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 atga 424

<210> 15446  
 <211> 460  
 <212> DNA  
 <213> Glycine max

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 accaaaatat aaatttttta caaattaaag gtttactcat aattctttta gacaattgtg 240  
 ggaagggttt tgcacgtctt ttctcccttg caaatccaat acatataaga tctctttcga 300  
 tataaagtag aagtggtttt gagagttttt ttaataaaat aatttatatt tataatagag 360  
 aaactttcaa aagcatgtat gaattgtatc caaacaaatt cctaattggt tctagagtgc 420  
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<210> 15447  
 <211> 461  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15447

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 taaagagagt ttctattgcc caaaaagttt tctctctca aaagattaag agtttttctg 180  
 aactgaaatg tcttctctc tcaaaaagat tcttgggtca accacttgca tattcaataa 240  
 ggaattttga ttgatcttca ttgtacaatc tatctttttt aagagagatt tcttctctc 300  
 ttcttcttac ttctgaaaag ggattaagag actgagagtc tcttattgta gaggattctt 360  
 gaacacaagg gaagggttgt cctgtctgtg gtcagacttt gtaaaagntg ttttacaag 420  
 agagtggaac atttcaagtg ggtttcttga ggaactggag t 461

<210> 15448  
 <211> 461  
 <212> DNA

<213> Glycine max

<400> 15448

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gggttccgtt tggaaaagat ggtaccactc acatagaccg cctgggttctt acgtaataac 360

tggaaaatgg gctcacatgt aggggtgagt agtgagataa a 401

<210> 15449

<211> 377

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15449

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tggggagtag aatcaccagc ctacaataaa acaacagttt cacatgacac acaaacatct 180

ticatttcca ccttcctcag aaatgaaaat gctaccaca atcaaaatag ataattggaac 240

alctgaatta ccttaacctt gtgtgcccgt cctgggaaca caaccaattt ggcttctgtat 300

gctttcagcc tctgcacatt agctggcaga ctntccaaag aacgggttctt ggcacgatga 360

tcaacagcaa taactat 377

<210> 15450

<211> 419

<212> DNA

<213> Glycine max

<223> unsure at all n locations

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 tagatcaate tgaatataaa tataaaacaa taataaataa aagagtttaa gggaagagaa 240  
 agtgcaaaact cggatttata ctggttcggc cacacccttg tgcctacgtc cagtcoccaa 300  
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 <213> Glycine max  
  
 <23> unsure at all n locations  
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 tctcgaccat ctgagaggat tgttcacag actgcaagaa cctcaaaaact cgtctccaat 180  
 tctctccaca tctatcatac agctccctct gagaattcaa accatcctt gcaaaaggtaa 240  
 catggggagc acacaattga aatgcagcaa agtcaaccaa ggacttgaac ttgaaagggt 300  
 gcaaaccatg actaccacca aaagttttgg aagtcaattc taaacanaca aggtccattg 360  
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 aaaaatggtc tgcaacggtc tccatcctc 449

<210> 15452  
 <211> 452  
 <212> DNA  
 <213> Glycine max

<400> 15452  
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 gaaaagaaaac aatgccttag ggcaacaata ttggatgat ccagcatttg cataatttct 180  
 aaetctctat tcttctatcg ctgtctcggc agaactttct tgatugccac aattctctct 240  
 gttctctctac atttgccta ataaaagcat tcaaaaaagc aagaagggtat cctcagtgat 300

tcatacatca acagcatggg gtttagaaga gatatgaaaa gcaaactcac ctgaaaaaca 360  
 acacaaaaag agcctgtccc cactacatgc tctgcaatat aactaacatt ctgtcaactc 420  
 aaaaataaaa attatgtcag aggaagtatt ag 452

111  
 112  
 113 Glycine max

<223> unsure at all n. locations  
 <410> 15453

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 taacctatct tcccacaatt ntgtcaagtc ttcgatcaac gaaatcaaat agacctcaat 300  
 atcattccct ggctgtcttg gagccactat catcatgcac agcattatgt acttttgctt 360  
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 <211> 474  
 <212> DNA  
 <213> Glycine max

<400> 15454

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 cattgccttg gagattgttt caaaacatac aaggaccttt gcagctgaca aacatacctt 180  
 tcttttactt gaacttcaaa ccttccaggc tgtttcatta gaatattttc ttccaatctt 240  
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 atagcaagca gaacctgat ggaatgtatg ctaaacataa gagataaaat ttggttgaaa 360  
 tctattctct ctctctagct gaatccttg gcaactaacc tagccttgta tcttatctct 420  
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<210>	15455
<211>	417
<212>	DNA
<213>	Glycine max

[illegible]

<210>	15456
<211>	446
<212>	DNA
<213>	Glycine max

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<23>      unsure at all n locations
<401>      15456
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aatgatccgg aggctactt ggagtgggag atgaaaatag agcatgtttt ctcatgcaac	240
aaactatgagg aggaccaaaa ggtgaagctt gccgccacgg agttttccga ctatgctctt	300
gtgttgtgga acaagctaca aaaggagaga gcaagaaatg aagagccaat ggttgataca	360
tgganggaga tganaaagat catgaggaag cggtatgtgc cggctagtta ctcaaggga	420
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<212>	DNA
<213>	Glycine max

<223> unsure at all n locations  
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atgggtaac aaatattaac tgggatgtcc aattcagggc caccacatat aatgaaatc

gaaattgaac aacggaagct ctcgagacat taaaatggtc ataacttttc aactgatgt 360

cggattaagg cttataatat atcgattcgc tcgaaaataa acatcggaag ctct 414

<210> 15458  
<211> 437  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
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tcaatttcga gtgtcactat atgtgatgcg ccacaattgg acattcgagt taaatgttat 120

gaccatttga atttctcaag agcttccgtt gcacaattct gagcgtctcg ttatgtgatt 180

cgtctgaatc ggacatccgt gtganaagtt atgaccatat agatttctca agagcttccg 240

atgttcaatt tcgagcctct cgacatatta tgcgcctgaa tcggacatcc gtgtgaagag 300

ctatgaccat cttgatttct ccagagcttc cgatgctcaa ttccaagcct atagacatat 360

tatgcgcctg aatcggacat ccgtgtgaaa agtatgacct ttgaatatct ccacaacttc 420

catagtaatt tcaacgt 437

<210> 15459  
<211> 457  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15459

tctgttccaa gaattgacaag gtgcagtaca tgcaaagaga tattacattc cgtcaaaact 60

taaatagtgt atgggcagga tatccagaaa tcatccatat tgcattgtac ataaagtcac 120



aacttttttc ctcagatgtc tgattgagac tegttaatata tcgagaagat cgaaattgaa 360  
 ttctgaagct ctgagctaat tcaaacgaca ataattgatt gctcggat 408

15463

447

DNA

Glycine max

tcagaattca atttcgagcg tctcaataga ttacgggact ctatcagaca tcgagcaca 60  
 aegttattgt cgtttggatt agttcacaga ttcagaattc aatttcgata gtctcgatat 120  
 attacgggtc tcaatcagac atctgaggaa aaaagttatt gtcgttgaa ttgctgaga 180  
 gctcaacatt caattttgag cgtctcgatg tattacogga cttaatcoga ccttcgagtt 240  
 aaaaggtatt ggtggttgaa ttgctgaga gctcaacat tcaattcoga gctcctcgat 300  
 attttacggg actcaatcag acctccgagt aaaaagttat 340

<210> 15463

<211> 447

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15463

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 gatcaaatgg agaatagaga tcataatgaa gaagaaagga ggagaagagg gaatgatggt 120  
 gttcttagac aaaaccaaatt tgatggtatt aaactcaaca ttctctctt taaaggaaag 180  
 aatgatccgg aggcctactt ggagtgggag atgaaaatag agcatgttt ctcatgcaac 240  
 aactatgagg aggacaaaaa ggtgaagctt gtcgccatgg agttttccga cgatgctctt 300  
 ggtggttgga acaaactaca aaaggagaga gcaaganata aagagcnaat ggttgataca 360  
 tgggtagata tganaaggat catgaggaag cgggtatgtc cggctagtta ctcaagggat 420  
 ttgaaattca agctcaaaaa actaac 447

<210> 15464

<211> 294

<212> DNA



agctcanag gagactcctg caccacgggc accagaacct gctcaggtg acctcattga 360  
 cctggaagaa gtagaatctg atgaagaacc cattgccaa acggttggac ctggcattgc 420  
 ggaaag 426

----- Glycine max

<223> unsure at all n locations  
 <400> 15467

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 tatgcaagaa gcatatgata aaatgcagac tccattagcc cgcctaaatac caactgcctt 120  
 ggttaagtata atcctatgat tcccaattga ctggaatttg tgatctctct ctctcttatac 180  
 ctatctcttg tctctcaagg aggggctaaa ggagctgaag gaatccacca tccaactggc 240  
 tccaagtcac ggatacattg attccctgt tgatgagact gttttcagat tggataacga 300  
 tgttgatgac ctctctgccag ttgaagttaa agaacagcgc ctccagcaatc tgotgcaggc 360  
 attgatggtt gcggcttctg ttgctgctat gctcttttg aagaagatac caacttcagt 420

<210> 15468  
 <211> 471  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15468

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 gaagctcttg atatattcaa atggtcataa ctcttcaact gagtcttcca ttcaggcaca 120  
 tcaactttcc agacgctcga tattgaacaa cgaaagctct cgtatattca tatgggcata 180  
 acttttcact cggatgtgcg attcagggcg atcgcatttc gagagctcga aatttgaaca 240  
 acagaagctc tcgagaaata caaatgggca taacttttca ctccgatttg cgatttcaggc 300  
 gcatcacatt ctgtgatgc ttgaattgaa caacgggaag cctccagaaa ttcaaatggc 360  
 cataacgttt aactcggatg tcgactcan ggcgcacaca ttccagatg ctcaaaattg 420  
 aacaacggaa gctctcgaaa aattcanatg gtcataactt ttcatttcag 471



<210> 15469  
 <211> 374  
 <212> DNA  
 <213> Glycine max

atcatcggga cttctagaat acacagattt ctgctatgata cattaactaga aaqatcagaa 12  
 aatcaatatt gaagggtcat agttattaca accaaagtgg ggaaaattca gattcatcat 180  
 acatagatta ctaggctaatt ttgcatatc tgacctgctg atgagactgg aacatgataa 240  
 tggctgtagaa ctccagttgc tggaagatac cctttttgaa cattatcagg atagattoga 300  
 gcttcataag catgacctgc catcacatac agagttataa tatactgaaa ctccaaggcc 360  
 cctaatagat ggat 374

<210> 15470  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15470

agcttggatt tcccttttagt agggaatcta tccctcctaa gatggagcca aaccacgtca 60  
 ccttcattaa gaactagctc tttcttctct ctattgcctt tagttgaata cacctttggt 120  
 tggttctcta ttgggttctt aacctctctc tgcattctct ttacaaattc tgacctagat 180  
 tcccttctct taigtataaa agaagtgtcc agtgggaggg gaatgaggtc taacggtggt 240  
 aggggatiga acccatagac aacctcaaaa ggggactgct tgggtggttct atgaaccccc 300  
 ctgttgtagg caaattctac atgaggaaga tactcatccc aagaattatg gttgcctttc 360  
 agaacagccc ttannagggt ggataaagac ctattcacta cctct 405

<210> 15471  
 <211> 365  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15471



tgacatttctt tatgettaaa aacagaaaaca ttaggcatag gcaaaagatc aagaggagtt 240  
 agtgggttaa aaccataaac aatttcaaaa ggagaacaat tagtgggtgt atgaacagct 300  
 ctattgtaag caaattcaac atggggtaaa caagcttccc aagtttttaa gttcttcttc 360

<210>        rna  
 <212>        DNA  
 <213>        Glycine max

<223>        unsure at all n locations  
 <400>        15474

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 atccagacgc tggaaattca gaacataagc tattagaaaa atcaaacgat aatcactttt 120  
 aactcgggtg tccgattgtg tcccgtagta tatcgagaag ctggaaattg aaaactgaat 180  
 ctctaagaaa aatcaaacga caataacttt ttactcggat gtccaattga gtcccgtaat 240  
 atatcaagac gctcgtattt gaaaatagaa gctcttagca aattcaaacg acaataactt 300  
 ttactcggga tgtccgattg agtcccgtaa tatatcgaga cgtccgtaat tganaaggga 360  
 agctctaaga aaaatcaaac gacaatgact tttaactcgg atgtcggata gagccccgca 420  
 naatatcgag atgtcggaaa ttganaacag aagctctgag caaattcaaa cgacaat 477

<210>        15475  
 <211>        469  
 <212>        DNA  
 <213>        Glycine max

<223>        unsure at all n locations  
 <400>        15475

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 gtagtgtcaa ggaattcaac ccttagcacc ttcttcatct gcaaatgaac ctgcccactt 120  
 tgtcttetaac ctgagaaaaag gtaattgaaa aaattttact aacaatttct atgcagatga 180  
 attttccact ggaattcttg atttgcagaa gtagcacatc cctctctctt catccctccc 240  
 aagagcgggt tccaacaaaa aaatggaaga tccagagaaa gagatcttgg aaacatttag 300  
 aaaagtagag gtaaacatac ctctgtgtga tgcaatanag caatttccaa gatattgtaa 360

atttttgaag gagctgtgca ctaataaacg gaagcttaaa ggaagtgaac aaattagcat 420  
 gggeagaaaat gtctccgcac tgattggtaa atctgttccc caaattcct 469

<400> 15476  
 15476

agcttcgatg aaaaatattga gtaaaaaata aactaattag aacaagtagg agaaaatga 60  
 ataaaaatca aagaagtatt attttataaa aattattgat aaaaagcata aatagaaagt 120  
 tatttaattt aaatgtataa attaattcaa acgttcattt cctaattgggt gaataggtac 180  
 ttctgaaata tattgnggcc ggtaatatag tccactttca ttacagtcaa ttgctagctg 240  
 ttaattaatt ataatttttc ttttatcttt ttactttgat ttattcaata atttttattg 300  
 gtaacaatt tcaaataaat tctttaaaaa aaattgtcat taatattact catcttgact 360  
 cctgagttnt gataattaca ttctactct tgac 394

<210> 15477  
 <211> 333  
 <212> DNA  
 <213> Glycine max

<400> 15477  
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 tacaactctga tacattgagc accaagagat tagtgatgct ccaaaattga aaacataccc 120  
 agcagtgett ttctatcat ccttatcacc acaccaatct gaatcactat aaccaaacac 180  
 ttctctctct atattctctt gactgtgagg atataaaatg ccaagatcca atgttctctt 240  
 caccatactc agaatgctct gtgctgcaa gaagtgagga gcctttgggt tctccataaa 300  
 cctacttacc aaccaaacac aataggcaat atc 333

<210> 15478  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <420> 15478

agettgotaa tccaggggca ttggcaaagt gcaatgtgga gactcatttt attgataaact 60  
 aaaaagaaga cccctttttt gatgctaaca attcagtgto tgtgaaagaa gcatatgaag 120

gattttttt ccccttttca gaatccatca tcaagctaag cgtagaatgg aacttgagtg 360  
 ggataatgaa tctggtagtg gtagctcana gacatgaag cttaccatca cttatc 416

<210> 15479  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <420> 15479

agettccatc accattactt tccctaactn tttaaatagt gatcaagggc ttcccatgga 60  
 cccaaagaga ataaaggtca ttccagagtg gctactcca tcaagtataa gggaaatttg 120  
 gggtttcaat gatttaacaa acttttacaa aaggttttgt ccatattttt ctatacttgt 180  
 agcaccactc attgagtttg tgaggaaacta tgttctctca tggaaagatg gtcaagaaag 240  
 gggttttcag tccctaccct actctaacat acccaacatc actaattcaa tgttntaatt 300  
 cttttaacag gtyttgagaa aagaatccct gagtttcaag aacctctgga ttgaggtca 360  
 aatcccttnt taagcattaa gatcaataga 390

<210> 15480  
 <211> 454  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <420> 15480

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 tgcacctgtc ggcagactct ggggttatg ctcctctgct gaccaccaca tagaccttt 120  
 cccctctgtc caacaatctg aagtaattga acagcctgaa gcttatgctg caaacatcta 180

caatagacct cctcaacctc agcagcaaaa tcagccacaa cagaacaatt atgacctctc 240  
cagcaacagg tacaatcccc ggtggaggaa tcctcccaac cttagatggt cgaatccttc 300  
acaacagcaa caacaacaac aacaacctta ttttcaaaat gttgctggcc caagcagacc 360

<210> 15481  
<211> 348  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15481

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cgaacaaagg gagaaagaag gttgtcttcg aaccocggaga ttgggttttg gtgcacatga 120  
taaaagaaag gtttcocgaa caaaggaaat catagcttca accaagggga gatggaccat 180  
ttcaagtgct tgaaagaatc aatgacaatg cttacaaagt tgagctgccc ggtgagtata 240  
atgttagttc caccttcaat gtctctgatt tatctctctt tgatgcagat ggagaatcca 300  
gattgaggac anatecttct caagaggggag agaatgatga ngacatga 348

<210> 15482  
<211> 280  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15482

tactcagctt gaaaaatcaa tggctetaact ntcacaogga tctccaattc atacgcacaa 60  
catattgaga cgtttgaaat tgaacagcgg aagctcttga gaaatagtaa tggtcataac 120  
ttctaactcg gatgtccgat tcangcgaat cacatataga gacgcacgag aattttaatgy 180  
tcataactgt tcacactaaa gtcttatcca ggcttataat atatcgagat actcgaaatt 240  
aaacatctga agctcttacg aaattcaatc ggcataattt 280

<210> 15483  
<211> 319

<212>	DNA
<213>	Glycine max

1. *Chlorophyll a* and *Chlorophyll b* contents were determined by spectrophotometry using the method of Lichtenthaler and Whistler (1987).

Tugaagctct cgagaaattc gaatggtcat aacatttcac tctgatgttc gattcaggta 240  
 Cataacttat ctgacgctc gaaattgaac aacggaagct ctgcacaaat tttaatggtc 300  
 a'aaattttc acacggatg 319

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<223>      unsure at all n locations
<400>      15484
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agcgtctcga tatattatgt ccccgaaatcg gacatttgtg tgattactta tgaccattcg      60
aatntctcga gaggggtttcg tgttcaattt cgagcatcta gatgagttat gtccttgagt    120
cgaaaatccg tgtgaaaagt tatgaccatt cgtaattctc gagagctttc gcagttcaat    180
ctcgagcgtc tcgatatatatt atgtccccga atcggacatc tgtgtgaaaa cttatgacca    240
ttcaatatctc tcgacagctt ctgttgttca atntcgagcg tctcgatata ttgtgtctcc    300
gaatcggaca tccgtgtgaa aacttatgac cactaaaatt tgcgagagc ttgcgttggt    360
caatttcgag catctccata tataat                                     386

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<400> 15485

agttctatt ctgaattttt agcatctcga tatactgcgg gacacaatcg aacatccgag 60  
caaaaagtta ttgtcgtttg attttgcctg gagcttctgt tctgtatctc gagcgtctcg 120  
ataatattacg ggattccatcc ggacattcga gtaaaaaagtt atttgcattt gattctctctc 180

agagcttctg ttctgaattt cgagcgtcta gatatactac gggacacaat cagaaatcca 240  
 agtaaaaagt tattgtcgtt agatttttgt tagagcttct attctgaata tcgaacttct 300  
 cgatatacaa cgggatacaa tcggacagcc gagtaaaaagt tattgtcaat ttatttttgt 360

<312> DNA  
 <313> Glycine max

<323> unsure at all n locations  
 <400> 15436

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 agaaatgttc attctaaagca tacaagtccc taatgtttat aaatctctana atttgagctc 120  
 ctangggagca aaacaatgtg tgtctctctag agaggggcac agctatccaca attgtttttc 180  
 cctttntgta ttgataaca tatggaaaatt gctctangta ctctaccat tntgcattgcc 240  
 ttttgtttaa ctgtctttgc cctctaatga acttaagtga ttgatgatca ctatgaatga 300  
 caaattccctt ggaaacaagg taatgttccc aagttcggag tgcctctatt aaggcataaa 360  
 cctcttttct at 372

<310> 15487  
 <311> 413  
 <312> DNA  
 <313> Glycine max

<400> 15487

atcttcaatt tctcttagac actcatcata ccgagggttt gtctcacata ctttccaaat 60  
 tcttccact ccctccacct ttcttaggtt tgcctagagg ggaagcacia ttccggcatat 120  
 ccacccgattc tgtttataag ttctcccttc catctctttt aataaagttt cagccttctc 180  
 tgaagcccca taagagatgt aaagcctaatt caaaacaaacc tgcgttagtga tctctggctc 240  
 aatgccttga gcttccatcc tatcaacaat ttgctcatt ccctcaataa cttttggact 300  
 cctctcttctt gtctatttga atctaaatga tatgagaaga aggtttgata tctctattt 360  
 ccataccat aacacatcag ctatttccct cctgtcattt cttctatata gaa 413



<210> 15488  
 <211> 351  
 <212> DNA  
 <213> Glycine max

caatcaccctg tctttgttgc ttaaggaggag ttaggcaacg tgtgccgctt aaagaaagtg 180  
 ttaatggctt gatgcaatca ccragatctt ggtttggaga ttaaggggtg tggccttgcct 240  
 ttgactgaa gctgagtcaa agagatcata ctgtaattta taacaatact aacottggca 300  
 gcatcttact tgtggatatg ttatgatatt gtgaaacaag aagtgatata a 351

<210> 15489  
 <211> 364  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15489

gaacaggaac attagttatc tgttatttca tagcaataaa agccttctct tgttgatccc 60  
 tccattcaaa aacaacattt ttcttaacaa ttctatttag atgtgcagcc aangtgctaa 120  
 aatctctaac aaacctctca tagaaacttg ctaagtcatg aaagctcctt acctcaetta 180  
 tattttatgg gggtggccaa tcatgaatgg ctntcacctt ctctagatca acctgcattc 240  
 cttggagagt aacaataaat ccaagagaaa tgacatgggt catacaaaac acacatctat 300  
 gcaagttaac atacaatttc tcacacctaa gtggcttcaa gatacacctc aaatgcacaa 360  
 catg 364

<210> 15490  
 <211> 285  
 <212> DNA  
 <213> Glycine max

<400> 15490

gctgggcttg aatcaaaaat ctgaccacca tacagacctt tgcctctcca tgcagcaacc 60  
 tggagcaatt gacacacctg aagcttatgc tgcaaatatt tacaatagac ctctcgaacc 120

ccagcagca<sup>2</sup>aatcaaccac agcagagcaa ttatgacctc tccagcaaca gatacaaccc 180  
 tggatggagg aatcaccta acctcagatg gtccagccct cagcaacaac aacagcagtc 240  
 tgcctcttcc ttccaaaatg ctgctggccc aaacagacca tacat 285

<213> Glycine max

<223> unsure at all n locations

<400> 15491

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 tggcatacat gtctgtgatg gcagatccca cattaactat attctccaat ggtttcttta 120  
 gaatatcaca atgcaactcc ttccctaatt ccagagcagc caaagcagca caagctggca 180  
 aaacactagc catggttagg gaattagcca ccattccctc ttgaattaac cacctaaaag 240  
 tggttatagc atcgatatcc agcccatgaa gcacataacc tgagatcata gctgtgcana 300  
 ctgcaacatc aaccaaagta ttctgctgaa aatcttgctt gccatctcca catctctctc 360  
 ctggaagtat at 372

<210> 15492

<211> 396

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15492

gcagagttga gaacaactta atgtgttcca ttagcttctc aggacgatat cttgcataca 60  
 gaactcccaa ctcagtanag ataccatata gtgcaagctc caatccctaac ccactctcca 120  
 ttagagatat gagttcattg aagcatcttc tgtctgata gtactcgcta acctctcca 180  
 natcatccac ctccaatata aaacagatag taagtattca gacaaggtca aaaggttaga 240  
 caaagcaatc aaaagtntt ctggcaattg gttttagtat ttgctacta gctacatctt 300  
 ttaacttgca tttaaaggat ntccaacatg ggaagaattg tctagtaatt ttgagtgag 360  
 gagggggcaa tcatctctgc aagtaaaaaa tccaca 396

<210> 15493  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

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 tccgtgttg gcttccaagt tatggagaca tgacaaaaat cataagttta ctctacaggt 240  
 attgatttct tctccctgtt gtaggattta gatgagaact aaatngtgga attgtgtact 300  
 atttgctca tgaagcanaa cagttacatt ttttaactac tcacagagag ggaaaatatg 360  
 actagaggaa cacttattat gaaatatatg agtgcacat 400

<210> 15494  
 <211> 368  
 <212> DNA  
 <213> Glycine max

<400> 15494  
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 tccgattcat ggcataata tgcgagacg ctcataaatg agcaacggaa gctctcgaga 120  
 aattcaaattg gtcataacat atcacacgga ggtccgattc cggcggatag tatatcgaga 180  
 agctcggaat tgcacgacga aagctctcga gaaattcaaa tggtcataac ttttaaaacg 240  
 gaagtaagat tcaggtgcat aatatatcca gaaagttgaa attgaaccac ggaagctgtc 300  
 gatatttca aatggtcata acttatcaca cggaagatcg attcatgcgc ataatatatc 360  
 gagacgt 368

<210> 15495  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 15495

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atatttcgag acgctcgana ttgaattcng aagctctgag caaattcaaa cgacaataac 120  
 ttttactcg gaigtcttat tgaatcccat aatatacoga caagctcgaa atagaatctt 180  
 gatgctctga gcaaatccaa acgacaataa ctctgtactc ggatgtctga ttgagtcctg 240

atatttcgag acgctcgana ttgaattcng aagctctgag caaattcaaa cgacaataac

<210> 15496  
 <211> 244  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15496

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 cttagaatt gtgaaaaatt ctgagataat gggtttcttta tacatgaagg cttctctttc 180  
 aaagaaaaaa aaatgtgtgt gcttaaatgt tctactagaa atgttcttgt ttgtgaagca 240  
 catg 244

<210> 15497  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15497

agctttgaaat gcactattca atggagtcca caagaacatc ttcagactga tcaacacttg 60  
 cacagtggcc aaagatgcat gggagatcct gaaaatcact catgaaggaa cctccaaagt 120  
 aaagatgtcc agattgcaac tcttggctac aaaattcgaa aatctgaaga tgaaggagga 180  
 agagtgtatt catgaactcc acatgaacat tcttgaaatt gcaatgctt gcaatgctt 240  
 gggagagagg ataacagatg anaagctggt gagaagatc ctcagatcct tgcctaagag 300  
 atttgacatg aaagtcaatg caatacaaga ggcccaagac atttgcaaca tgaagatgga 360  
 tgaactcatt gggtctcttc aaactcttga gct 393

<210> 15498  
 <211> 403  
 <212> DNA  
 <213> Glycine max

gccttgatt nctcaaggt ccacttggac cccatttcta ccaactacaa accctaagaa 120  
 aactatatta tctacacaaa aggtacactt ctctatattt gcatagaggg tgtttttcct 180  
 aaggactgaa agaacttgcg tgagatgtcc taagtgatca tctangctcc tactctacac 240  
 taaaatatca tcaaaataaa taactacaaa tctacctatg aaatccctta agacatgatg 300  
 cataagcctc ataaaggtgc ttggtgcatt agtgagccca aaaggcatca ctageccatc 360  
 atacaaacca atcttgggtc tgaagcggt tntccactca tca 400

<210> 15499  
 <211> 358  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15499

tcctcaacta ctgtttcca agggaaattc tataaacaga cctcccatct ttaatggagt 60  
 gggttaccac tactggagaa ccgcatgca aatctttata gaggcaatag atttaaatat 120  
 ttgggaagcc atagaacaag gaccttatgt tccctctata atagccggaa gtgcaacaat 180  
 agaaaaacct atagcagatt ggactgagga agaaagaaga ttagtacaat ataatttaaa 240  
 ggccaaaaat attattacat ctgccttagg aatagatgaa tactttanng gttcaaattg 300  
 tanaagtgt aacgatatgt gggatacact acaagtaaca catgaaggca caacatat 358

<210> 15500  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15500

agctttttgtt cttcagccac caatccatta tcttgaaagg tttagggtccc caatcattgg 60

ttctagacct caatagggat gggcaatgat cagagaaatc tctatccaac acgaattgag 120

tagtatctag ccattgggac agccagtcac cagaaagaag gaacctatcc aatttgctca 180

ttctatctat tctatctat tctatctat tctatctat tctatctat tctatctat 240

ctatgaagat cctcttcatt ctcaataata ctattattga 300

<210> 15501

<211> 349

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15501

cggaatgcc tgccttagag acctgngatt ggtatcatag ttagttagta taatataata 60

tctaattatc tattcatatc ttctgagttt tcaaattggga ggagggagtc aactcagtca 120

agtttagaaa ttgtaggctc atcttaagaa agaaaaagaa acacaactca catggagcca 180

gtcaatacag caaatattac agtcaaaacc ttgccttcag tatatccttt ctctattatc 240

attgtttgcac caaacatac agccagacca taactgcaga taaaaacaaa gtagagcaaa 300

ccatatccca naccagaggc tagtgccctc tgcactccag tcttatatg 349

<210> 15502

<211> 337

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15502

agatggacca ttcaagtget tganagaatc aatgactatg cttacaaagt tgagctgccc 60

ggtgagtata atgttagtcc cacttcaat gtctcagaat tatctctctt tgatgcagat 120

ggagaatccg atttgaggac aaatcctctc catgagggag agaattgatg tgacatgacc 180

aagaacaagg gctaggatcc acttgaagga cttggaggac ctatgacaag ggctagaaca 240

aggaaagcca aagaagctct tcaacaagtg ttgtccatad tatttgaata cacacccacg 300

ettcaaggag aaaacgtcaa agttgtgagt tgtatca

337

<210> 15503  
<211> 357  
<212> DNA  
<213> Glycine max

aaacttatat agaagcttgg taaccatgg aagctcctaa tatcctccac actcttggg 120  
ctgggacatt ctgggatggc ctggatttcc tcaagggtcca ctgggacccc attcttacca 180  
actacaaaac ctaagaaaac tatattatct acacaacagg tacacttctc tatatttgca 240  
tagaggggtgg ttttcttaag gactgataga acatgcctga gatgtcctaa gtgatcatct 300  
atgttccctac tgtactactaa aatatcatca aaataaacaa ctacaaatct acctatg 357

<210> 15504  
<211> 400  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15504

atcttcaatc ttctcacaaa ggagaagaca aagtaaataa ggtgtgtctc caaactctta 60  
agaggtgagt ttgaatcctt acatatgaaa gagtcggagt ccatttctga ttattnttca 120  
agaattcccc tagtttcaaa tcaactagaa agaaatgggtg agaagttaaa agatgtaaga 180  
attatggaga agatactatg ctctttagat cccaaatttg tgcacattgt tgtgacaatc 240  
aaggaaacca aagattttaga aactatgatg atagaaaaac ttcaaggatc actgcaagct 300  
tatgatgaga agcacaagaa gaagcanaag atcaactgaga aaatcttcaa gatgcaacta 360  
aaggagaaaag aagaaagtcc aggaaatgag agaagtcaac 400

<210> 15505  
<211> 385  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15505

nnggacttct atgttctggg aacctctctt tntttatgtg taccctaaact ccatcacctg 60  
 gttcaagcat gactntcttt ctgctttatg tggtttgctt tgcatagtct gcagttttct 120  
 ttttaatttg agccttcact tgcctatgca gcttcttcac ataactcagct ttagcctgtg 180  
 tttttttt tttttttt tttttttt tttttttt tttttttt tttttttt

gtcttaacag tgacctaaag cctat 336

<210> 15506  
 <211> 336  
 <212> DNA  
 <213> Glycine max

<400> 15506  
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 agtatatcga gacgctcgta attgaaaacg gaagctctaa gcacattcaa acgacattaa 120  
 cttttgaetc aagtgtccga tggagtcttg tactatatag agatgtctga aattgaagtc 180  
 tgaagctctg agataaatca aatgacaatt actttctact ctgatgtccg aggggaatacc 240  
 gcactatate gagacacttg taattgaaga tgaagctttg aggatattct gacgaaatta 300  
 ctttttactc ggatgtccat tgagtctgtg gctata 336

<210> 15507  
 <211> 379  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15507

cgtgtgacaa ttcactgtga cagtcaaagt gccattcaat tagcanatca ccaaagtac 60  
 catgagagga caaagcacat atatgtgaaa ctacacttca ttagatatgt gattgaatct 120  
 gagaaggtga aggtggagaa ggtttcaaca gaagaaaaact cagctgarat gttcacaag 180  
 tccctctctc ggttcaagtt caagcactgt ctggacttga taaattntga agatgctcaa 240  
 agtagatttg tataagtga gccctgaagc acaaggtaga cacttgttga ttggagtc 300  
 aggtggagaa ttgttgtgtg tgactcaaa tcacaaatgg cacaagtgag aaggtctcaa 360



gaggtgctgt cataacagt

379

<210> 15508

<211> 310

<212> DNA

<213> Glycine max

agcttctgag atctgaagac ttcttcagac atgtagaact ggggaagact gacaacccaa 60

taggttcaaa cgtgacctca agtgtttgtt gatcaactat cagactaaa caggttgggt 120

ttgaaagctc cccacactca ccttcgagga actgagatcc ttatagtcc ttgaggtact 180

ctctatgttg gatntgtgac ttccaatcaa gatggaaatc acctcttcaa caaagtgtgt 240

aacaaaggtg atgtgtttgt gttcccaatc ggtctcattg atttctgcat caatgtggga 300

tatggcaatg 310

<210> 15509

<211> 334

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15509

agcttctgtt gttcaatttc gagcttgttt acatattatg ctccctaate ggacatccgt 60

gtganaagtg ataaccaaat gaatttctcg agagcttctg atgtttaatt tcgagagtat 120

caatatatta taacctgaa tcggacctaa gtgtgaaaag ctatgaccat tgaatttctg 180

gagtgettcc gttgatcaat ttccgcgcgc tctatatgtg agtgacctga atcagacatc 240

cgagttaaaa gctatgacca tttaaatttc tcaagagctt gctagttca atttctagcg 300

gctcgatatg cgatgtgtat gaattggaga ttccg 334

<210> 15510

<211> 336

<212> DNA

<213> Glycine max

<400> 15510

gtgcctgtat atcgatgcgc ctgaagtcca cctccgagtg aagaggtatg accatttgaa 60

tttctcgaga gcttctctatg ttttaattgtg agcgtctcga tatattatag gcttgaatcg 120  
 aacctcagtg tgaaaagtta tgaccatttg aatttcttta gagcatccgc tggtcattga 180  
 ttagcgtctc tatatgtgat gcaccttaat cggacctcgc cgtgaaaagc tatgaccatt 240

<210> 15511  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15511

agcttcaaca tccaatttct agcgtctaga tatattacag gactcaatca aacatccgag 60  
 taaaaatgta cngtcgttta aatttgccta gctctccagc tttaaatttc gagcgtctcg 120  
 atatatgacg ggacttatatc agacatccga gtaaaaagtt attgtcattt gaatttgctt 180  
 agagattcaa cattcatctt cgagtgtctc gttatattac gggactcaat tatacattcg 240  
 agtaaaaagt tattgtcgtt tgaattntct cagagcttca acaatcaatt tcgagcgtct 300  
 cgtatatatta cgggactcaa tcaggcatcc gagtaaaaag ttattgtcgt ttgaattggc 360  
 tcagagcttc aacattcaat ttcgagcgtc tcgtatatatt acgggactat atcagaca 418

<210> 15512  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15512

tattatgtgt tgatgattat aacacacaca cacacatgta tatgaattgt taaaataatt 60  
 tatgaattaa tagttcanat aataaaatta aattgaagga aattaatata tcaagattca 120  
 atgataaata ctccaargc attnttagtt taattattta ttaattnttt gaattgaaaa 180  
 tagtatagtt caattcaata gatacatggt ttgtgccatg taaataattaa tattgtgaga 240  
 ttttccatag attccatgagc tgggataaca tgggtgtgtg ggattataac attatgattg 300  
 agattgagtg tgggtgataa attgagtatg ttttgaattg taadatatcat gttatattaag 360

attntataca cattgagttg tgagttatga actgtacaat cacat

405

<210> 15513

<211> 333

<212> DNA

<213> Glycine max

ttacaaactt aattaactgc atataaattt actntaagat ccttanataa tacatagcat 60

gagttcatga cggcaatggt taaatgtatc aattctatta aatttgagct cgttcaatta 120

tttcatacgt attattaata taattcttaa aataattatt ataaaaatta acgataagta 180

tgattacatg aaagtgtata attaatttat attattgata cctagtctat ttgtcatat 240

cttcactttt aaatntgaat tgtacatcta acaatntaat acataatatt gaatcaacag 300

tcacacaaat aattcaacca atttatcttc tta 363

<210> 15514

<211> 408

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15514

atcttattct actanggact ttagacaaca tgcatttcat tnttttcttt tcgaaatcat 60

acaaattggt cacattcatg gtagcaacat gcctaaaggg aaccttcata tcaagatgca 120

aatatgttaa taactctnta aacctcctat gttcaacaaa agagaatgga agatcatgct 180

caataatcat catagatata atctcatgta ccacactntg atcaatnttt ttattcttta 240

atctcccagc atgatcaaga ataatatctt caacatcact attagaatgc ctccaatat 300

acatcacatt tccnecatg acgttgtagg ttgaagtctc attcttatty tcaacgccca 360

cataatcttt caaacatatt tgcatttact cctcactttt tcatcact 408

<210> 15515

<211> 372

<212> DNA

<213> Glycine max

<400> 15515

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 gctgagaatg caccgagcaa taacaaagac tgcggtcttt gaatgataaa aggggaattac 120  
 ctcccatatc tcttgaagac acgctccaag tcacgggaac gagtcacga agacaagtgt 180  
 ctcccatatc tcttgaagac acgctccaag tcacgggaac gagtcacga agacaagtgt 240  
 ctcccatatc tcttgaagac acgctccaag tcacgggaac gagtcacga agacaagtgt 300  
 ctcccatatc tcttgaagac acgctccaag tcacgggaac gagtcacga agacaagtgt 360  
 ctcccatatc tcttgaagac acgctccaag tcacgggaac gagtcacga agacaagtgt 372

<210> 15516  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15516

agtgacacta tgataactcag cttctattct atntaganat tcatagaagt gttataatgt 60  
 ctganatcta tgggattaag atggtcattg accaatccct attntatgat ttaacaaaat 120  
 tgcctagtga aggtgtacct ttgagggtg cactgattga tgaatggaaa ttcgatttct 180  
 ctgtgcatga tgcgcccgcg ttggtttgca ccaaccaagc ggatatgacc ggaaggcttc 240  
 ttgcgggttc attggctttt gaaatccgca tctccatta ccttatagtt cacatattgc 300  
 ttcttagatc ttcaaacctt gcccagggtt ctgaagaaga tctcattgtc atgtgggctt 360  
 ttcatataag ttacacatt gattgngcac atcttggttag atatcgcatg cat 413

<210> 15517  
 <211> 369  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15517

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 tcatggttga tcatgacaa ccatgaagaa nattatgaaa ggctactaga tccaacacct 120  
 gatgagccat aatcaccag gagggcatag aggaatcttc aactctcagc tagattgcaa 180  
 gattatgtca tgtttaatga caaagatata tcaatgaag agattatcaa tttacttta 240

tttgcagaact gtgatccagt tatttttgaa gaagcctcaa gtgacgagaa ttggagaaaag 300  
gcaatggatg atgagattcg tgcatttgag aagaatgaca catgtgagtt ggrggacttg 360  
ataacaaaac 369

<210> Glycine max

<223> unsure at all n locations  
<400> 15518

ajettetata taaggttcgt tectaatttc totacaattg catcacctct caatgageta 60  
gtgaagaaga atgtggcatt taactggggt gaaaaacaag agcaagcctt tgccttgctt 120  
atagaagagc ttactaaggc acctgttcta gctcttccta acctttctaa aacttttgag 180  
atagiatgtg atgcctctgg agtgggagtt ggagctggtt tgttgcaagg tgggacccct 240  
attgcttatt ttagtgaaaa acttcatggt gggaccctta actacccac ctatgataaa 300  
gagctttatg ccttaataag agcactccga acctgggaac attaccttgt ntccaaggga 360  
attgtcattc atagtgatca acaatcactt aag 393

<210> 15519  
<211> 235  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15519

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tcaatttcga gcgtctgtat atgtgatacg cctgaatcga acatccgtgt ganaagttat 120  
gaccatntga atntctcgaa agcttccttg gtccaattcc gagcatctcg acatattgtg 180  
tgcccgaaac tgaccttcgt gtgaaaagtt atgaccattt gaatttctcg agagc 235

<210> 15520  
<211> 332  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<40>> 15520

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ccctttgaan agcggtegat gaccacaaga atggtggtat agccacgaaa tgcgggtaat 120

gctctatga cttctaccca tggctctctctg cttctctctctg cttctctctctg 180

tttgagcca actgggctt taattctctc ag 382

<310> 15521

<311> 381

<312> DNA

<313> Glycine max

<323> unsure at all n locations

<400> 15521

aactgagggg ctagtggggc atttgtctgc tagaggaatt atagcagcta ctgctatctg 60

aacgtgctca aacgtctcac ttaacattaa tagcacgttc actactgagc caaaacaaat 120

togacggttg ctctcacagt cctctacat tctcaatca aacttatatt ntctgtggtaa 180

tctcaatttc agcatacccc aacagctctc agagatttac gaaatcattc caaacgctct 240

gcttctccat ggtacctca ccaaaagaaa ctccagctcc ttgttcaccc tctgtaccat 300

catctccatc atccaccana gcaccatcaa accaggaacg acctgaattc aatatccagc 360

ccatacagat gattcttggt c 381

<310> 15522

<311> 256

<312> DNA

<313> Glycine max

<323> unsure at all n locations

<400> 15522

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cgataatgca atgcataaca tgcctatggc aaagacagga ttgggcagat aaagttacac 120

catacaaggt gagagcctt gatactgtt aatagacatt gcagagata acatgattgg 180

agatagtctt ctcaaaagat taagagggca cgggtgattga gaacgcaaca ttacattct 240

256

[illegible]

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<223>      unsure at all n locations
<400>      15524
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ntgagccaat tcanacgaca ataactttnt actcagatgt tttatatatt ctctgtgatat    60
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tactcgggatg gctgattgac tctgtgcata tatcgagagc ctcgagattg aatgctgtag   180
ctctgatcgc attcagacga cgataactgg ttacacggat gtgtgattga gtcccggtgat   240
atatcgaaaac gctcgagatt gaatgtgtga tctctgagcc aatccgcacg act          293

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400 15525

ctedgatitc buagteccua ucataa'ara teqatitucd teutttadad catuccaadc 60

tctagagaga ttcagatggg cataactttc cacatggatg tctgaataag acgcgcgaata 120  
 taccatgatg ttccgaacttg aacaacggaa gctctccagc aatactgata gtcataactt 180  
 tatectcgga gggacgattc atgcgcagaa tatat 215

<100> 15526

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 gaccatttga atgtctcgaa agcttgcttg gtccaattcc gagcatctcg acatattgtg 180  
 tgcctcgaac tgaccatcgt gtgaaaagtt atgaccattt gaatttctcg agagcttcca 240  
 atgtgtagtt tccagcgact ccgatatatta taagcatgaa tccgacctta gtgtaaaaag 300  
 ttatgac 307

<110> 15527

<111> 378

<112> DNA

<113> Glycine max

<123> unsure at all n locations

<400> 15527

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 tgagtagcat tttaaaagac gcctctgttc ctgaagctga tgaagatggt ccaacatctt 180  
 ccaccccgaa tgtttctgtg cctgatgttg agaaagatgt tccaacatct tccggcccaa 240  
 atgetgaagc cctcccttca cccagtgaag aggaatcaac agaagaagag gatcaagcct 300  
 cagaggagac ccttgcacca agggcaccag aatctgctcc aggtaacctc attgacttgg 360  
 aagaagtcca atctgatg 378

<210> 15528

<211> 453

<212> DNA

<213> Glycine max



<223> unsure at all n locations  
 <400> 15528

taaaagtcgc atatcttana ggaaaagaat caaaattgat gatgtacata tgagactaat 60

acaaattcc caa'aatccc tggteccaaac ctgcaaaagag aggtagtgat catggaatac 300  
 tctatcttga aagatttccc atcaatcata aabcagtaat ttgtaacaaa attacatcat 360  
 acatactagt atgattatgt aaatacacgc atgcattgtat gtgagcataa attatagctc 420  
 atatgtcttg gtgggtatgt aaataaataa tat 480

<210> 15529  
 <211> 469  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15529

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 atcttttgat gtgcgcttag acaatccttt ccattgtggaa agacttaaag agtgtagtgg 180  
 gccatatagc accatgggtg aagtatcatg gctttataga gaaagtcaga agtcggctga 240  
 taatgagaca ctgcctctga atctagtgtg aagctgttat atacttatac ttgattgaga 300  
 taacacacta gaatgaactc ttgggttcta agttgagttc taatgagcat gtgctattat 360  
 gtctgtatgg acatttattt gtgggctaga acaagtagac ctgggcattgt tgaagcacca 420  
 agagaagata gctatttggg tcaacataca ctatgcttta gogatgcac 469

<210> 15530  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15530



catactcaact tggtaagtc aatcttgtaag cattgtcatt aattctctca aggaccttga 240  
 cagggtccate acccctatgt tgggaagtcag atttcccttg tgaaggaaat ccatgcttcc 300  
 tttagatgtac ccaaatctaa tcttctggtt caaatacca 339

<223> Glycine max

<223> unsure at all n locations  
 <400> 15533

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 cccaccatta tcaaatatta tactcttaat ttctaaatgt taagtntcttt tatatatggt 180  
 tcatatctta aaactaattt tcttaaaaaa ttaattatat aacaaaattg tgtcatacca 240  
 tccattntat cataactaata ctttgtcaaa taaatctttc atatatatat atatatgtgt 300  
 ggggtgtatat ttgaaattta ttcttcataa tgctttataa cataatctat ttaaaatcta 360  
 atcagacaac anattgctct ataccataga atttactata gtaatacctt tcctc 415

<210> 15534  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15534

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 aacaaagggtg gaglatggag gattgccttg aggggtccgca cttangcaat catgaaactc 120  
 agctccaaaac tcgaaagtgg aggacacatg aacagcccta agcaagaaca ttcattgtggc 180  
 tccggaaaag gatgagaatg gaggattgcc ttaagggctc tctcttatgc aatcatgaaa 240  
 cacagctcca aactcaaaag tggaggacac atgaacagcc ctaagcaata acattcatgt 300  
 ggcctccgaa aaggacgaga atggaggatt gccttgaggg tctctcttta tgaatcatg 360  
 gaacadaact ccatactcaa aagtggagga tacatgaaca accctaagca ataacattca 420  
 tgt 423

<210> 15535  
 <211> 454  
 <212> DNA  
 <213> Glycine max

attttagataa gtgtgtgaatt gttgattgag taagtgttta attaagctac ttacccaac 120  
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 ttaactacctt tgcattgacat actgaacttt ggcactaaga ctgaactcag acataatgat 240  
 acacattttcg aatadaagtc ataactgata atataatgat ntacttggaa cagtcatatc 300  
 aaaaggcttt acaagtggat ccttcataca aagcagctgc tgagtgcctg gccattgttt 360  
 taaaggatat tggtagcaac ataaagcttg caggaaatat tcangaagga atcaaaaata 420  
 ctttgaagct ctcaaaatag atccacacta tgc 454

<210> 15536  
 <211> 319  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15536

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 cctctatttg ggtcttaacc ctctcatga acttctttac aaactctgac ctagattccc 180  
 cttctttatg tataaaaaaa agtgtaagt gggaggggaa tgaggtctaa ggggtgtaag 240  
 ggattgaacc catagacaac ctcataaggg gattgctcgg gggttctatg aaccccccta 300  
 ttgtacgcaa attctacat 319

<210> 15537  
 <211> 301  
 <212> DNA  
 <213> Glycine max

<400> 15537

tgggtattca atttcgatcg tctcgatgta ttacgtgact ttatcagaca tctgagtaaa 60  
 aacgttattg tggtttgaat ttgctgagag ctccaacatt caatttcgag catctcgata 120  
 tattacggga ctcaatcaga catccgagta aaaagttatt gtcgcttgaa tttctcgaga 180

<210> 15538  
 <211> 423  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 15538

ttagttcaact acttcaagta gtgcacgath tgcctccaga tgaaaacaag ttgccaaaaa 60  
 gttattatca caccaagaag atattgtgtc caatgggtat ggagtattag aagattcatg 120  
 tttgccctaa tgattgcata ttgtacatac atgagtncca agatatgcac aaatgcccta 180  
 ggtgaggggt atcatggtac aaagtgaagg atgatgacga gtgtagtagt gacgaaaact 240  
 caaagaaggg accccaacg aaggtattgt ggcattctcc catcattcca aggtttaagc 300  
 atctatttgc taatggagat taacggaaaa aaccttacat ggcattgana tgggtgaaac 360  
 tacgatggaa tacttcatca ttcggtgat tccaccagat ggaagaagat tgattgttat 420  
 atc 423

<210> 15539  
 <211> 313  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 15539

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 tcaacagtcg catctctctg tgtggttctt gaatgagtat cataggccta taaatatgtg 120  
 acttgagaca cgaattgat aagagttttt cagaacaaaa auctcttato ctcttataaa 180  
 gagaaatcgt ttatctctt tacaaaatcc ttggccaaat tacttctgat tcaataagga 240

attatttgaa tgcbaaatt gttcaateta tttttttcaa gagagatttc ttctttctctt 300  
 ttctttctctt ctg 313

111 111  
 111 111

<223> unsure at all n locations  
 <400> 15540

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 agaattgaat tcaactaacc tgcacgaaga ataaatgatt ctcaattaca ataaattaaa 180  
 ggtatacttt ttttaacaat aatacatctt ttaagtctat atttcttata attagaatca 240  
 aaataataac tctctttttt ttttaattgag agagtatgtt ataaacacag acatccaata 300  
 atataacaga gcagcacttt aaagtgggaag acacttgttc ctaatttttc gaaagatgcc 360  
 atgattctta cgtgggaaaag aatatntctt ttat 394

<210> 15541  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15541

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 ttccaatttg agccttcaact tgcctatgca gcttcttcaac atactcagct ntgcgtgtg 180  
 cgtctttatg cttaaacata gcaatgttag gcataggcaa caaatcaaga ggagtcbaag 240  
 gattaaatcc atacactatc tcaaatggtg aacaattagt tgtgctatgg acagcccgat 300  
 tataagcaaa ctcaacatga ggcaaacatg ctctccaaga tntaagggtt ttcttfaaaa 360  
 cagtcctaag cagtgtaact aaagtcctat tgacta 396

<210> 15541  
 <211> 406

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15542

gcttgcgtgt gctgcccata atttcacttt caaacaacat aggaattatg taacttcatt 240

gaaggatcca cataaagctc taaggagatg attgctccca ttaagatatt ttttgtaatt 300

aatatatatt aataaaaaaaaa ttactntcca aattggggcca tatgtataat tcaatcacc 360

gcacaccttt cttcagtgc tntatgatgg ggacgtcact gcagtc 406

<210> 15543  
<211> 352  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15543

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aaaagttatt gtcgtttgaa ttgctgagt gcttcaacat tcaatttcga gcgtctcgat 120

atattacggg actcaatcag acatccgagt aaaaagttat catcgtttga atttggtcag 180

agcttcaaca ttcaatttag agcgtctcat atattacggg actcaatcag acatccgagt 240

aaaaaggtat tgcgctcga aaatcctcaa agcttcggta ttcaatttcg agcgtctcga 300

tatattatgg gactcaatta gacatccgag taaaagttta ttggcgtttg aa 352

<210> 15544  
<211> 358  
<212> DNA  
<213> Glycine max

<400> 15544

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atgggaacac acacccctcc aatagetaag ctacccgccc cccaaaatac aaaaaaaaaa 120

accttactac aaagactact caaaatgccc tgaatatanaa ggctaaaaac ctatactact 180

agggtaccct taacttgtag ggtagggtgt ccttaatttg tagggtagcc tacaaacct 240  
 aaattgacca aaatacaagg ccataagat ggaaaacct ttctaatatt tacaaagata 300  
 agtaggtgca tacttagccc atggaccbaa attctaccct aaggetcatg agaactct 368

<223> Glycine max

<223> unsure at all n locations  
 <400> 15545

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 tactctgcgc tccctgaact tttactaaat tctgtgatga tctgcattnt aatatanntt 180  
 tttatcagge tangcttgat tggactraag aacgggttca atgttgatct attattatgt 240  
 aaaaaccaatt ttaagattgc cagtatttan actaacaagc ataatttatt aaaattatnt 300  
 taatcgatnt gaaaattatc ttttgagtt acaaaaattac ttattaaatt gctatagtnt 360  
 ctttttataa ttcattntnt aagacttaaa taatttgtaa gtcttgaact gtttgatgaa 420  
 atttaatat tctctggat 439

<210> 15546  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15546

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 ccccatccct atccctcacc actaatnttt tttctgttta catacgtgat tgggaacaga 180  
 tacatcgtta tatgatagca agctatgcct atcaaagcct gagtcacatt tgaggggtat 240  
 cccaatcaaa cctgcgctgt gaatagacct cataatcaat tggcctagta tcaacaacgt 300  
 aatcaactct gtaaaagccc ttaaaaagag ttgggtgaaa actatcatta ctggaaggca 360  
 gtaatttata cagcactaat aattcaagag tgaatataga 420



<210> 15547  
 <211> 428  
 <212> DNA  
 <213> Glycine max

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atctagata gatcttgaag ggtattcaag ccctctctct tcttgccttg aatgttaagg 240
agtgctccaa taacaactgt acaaacattt tctctacat gcataacatc aatacaatgt 300
ctaaagtcaa gatcacacca gtacggaaga tcaaaagaaa tggacctctt ctccatctgc 360
acctctgaat tctatccttc tcttgnctct tcccaaatc agtgctcagg ttttgaaccc 420
gttgatat                                         428

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<210> 15548  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15548

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aagtcacatt ctccaaggaa aatctgatat taataagaat gaagtcagca gacttggtea 180
gtctatcaac aataacccaa atagaattct aacctctagg ggttctaggt agtcttacca 240
caaaatccat ggaaataactg tctcaatttc actanggtat ctctaaagat agtaacttct 300
ctgaaagtcct ctgatgttct atctttagct tctgacagat taggcattga tacacaaact 360
cactaacttc tctcttctata ttgnngccac caaacatcat ctttaaatcc tgatacatct 420
tgtt                                         423

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<210> 15549  
 <211> 434

<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 15549

15549 15549 15549 15549 15549 15549 15549 15549 15549 15549

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 gaactatgcaa aacatgcagt tccaacaaga gaccagagct tccattcaga gcttaactaa 360  
 tcagatggga caattggcta cacagttaaa tcaacaatag ttccagaatt ttgacaaatt 420  
 ggccttctcaa tctg 434

<210> 15550  
 <211> 417  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 15550

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 ccagatttac ctgcgtcaac tttatcagag agaaatcaga cacctttgaa gtattcaagg 180  
 agttgagtct aacacttcaa agagaaaagg actgtgtcat caagagaatc aggagtgacc 240  
 atggcagaga gtttgaaaac agcaggttca ctgaattctg cacatctgaa ggcacactc 300  
 atgaattctc tgcagccatt acaccacaac agaatggcat agttgaaacg aataatatga 360  
 ctttgcaaga tgcctgctatg gtcattgctnc atgocanaga acttccctat aatctct 417

<210> 15551  
 <211> 397  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 15551

agctttacat actcgcttag atctctttct gaaatgcgtc tcgaactcgg acctccaccc 60  
 ggcgagtgca aaggcgagtg tcgagtcctaa cgcgctgcaa ggcctgttg tctcggaac 120  
 jagtrangga agcgcgagtg acttctctcg agtcggaatc ggaaagccac cgagtcaagg 180  
 ..... 240  
 ..... 300  
 ..... 360  
 ..... 420  
 ..... 480  
 ..... 540  
 ..... 600  
 ..... 660  
 ..... 720  
 ..... 780  
 ..... 840  
 ..... 900  
 ..... 960  
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 ..... 1080  
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<210> 15552  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15552

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 ttttactcgy gatgtccgat tgtgtcctgt agtatatcaa gactctcgaa attcagaact 180  
 gaagetctaa gcaaaatcaa atgacaaaaa aattttactc ggatgttcga atgaatcccg 240  
 taatatatgg agacgctcgt atttgaaaac ggaagctctg agcaatatca aacgacaata 300  
 acttntact cggatgtctg attgtgtccc atagtatata gagactctcg aaattcataa 360  
 cagaagctct gagcaaaatc aaacgacaat anattttaac tcggatgttc gaatgtgtcc 420  
 cgtagtatat ct 480

<210> 15553  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15553

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 catttgctgc caagcttca ttctcttcca ggtgaagatc ctctataagca tcttaaggag 120  
 ttaatatatc ttaatatcag catgaaaccc cctgatgttc aggaagataa tctcttctta 180

aaagcttttc ctcattctct ggaggaagtg gtgaaagatt ggcgtgacta ccttgctccc 240  
 aggttcatta ccggctggga tgaccttaag aggggtgtct tagagaaatt cttccctgca 300  
 tctaggacca ctgcatcag aaaatatatt tcaggcatca ggcaacttag tggagagagc 360  
 tttatatt tttatatt tttatatt tttatatt tttatatt tttatatt 420

<210> 15554  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<400> 15554  
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 tattgtgagt agcattctga aagatgcttc tgtgctgat gctgagaaag atgttccaac 180  
 atcgtccacc ccaagtgttt ctgtgctga tgcagagaaa gatgttccaa catcctccgc 240  
 tccaaatgct gaagccttcc cttcaccag tgaagaggaa tcaacagatg aagaggatca 300  
 agccgcagag gagaccctg caccacgggc accagaatct gttccaggtg acctcatga 360  
 cctggaagaa gtcgaatctg atg 383

<210> 15555  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15555

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 gtggcaattg tggggatata taaggctcta gcaaggaaga ggtagtgtga atggagtatt 180  
 taggtagctc cagacaatat actgacataa ctcccttgca cttgcttgc tctttgaaca 240  
 gaaacttgat tgactgattt tcatgtanga ctgttctcat agcacaacat gttctctctc 300  
 tcaacaaaga ggataatgca ccaatctaca gtgttggaaga tgtcaaaaaa attaaagaga 360  
 tagctactag agatgatgca tttgatctgc taagtgatcc acctg 420

<210> 15556  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

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 taaagcatga aaacctgtca aaaattaaaa aacaaacacc ccattgtaat acctagacaa 300  
 aaaaatctaa natataacgc actcagtttag atgtgaagca cacacaaccc tttaacaata 360  
 tctctttaga atctgtttga atggaggaat ttagagagaa atagcacana tgat 414

<210> 15557  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15557

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 cgaattatag aataaacgct ttactgtac ggtccttatt caagagtctt tctaacaatg 180  
 agtagtagta tattaacat aattcactat aaacatattt tgactctcat tataattatc 240  
 atgtaatgta atagaaaaaa actattccaa aataattatt attttaacat cttactataa 300  
 tattaattat tcttcccttt atataactta taatattaat gattgatagt aaaatctata 360  
 aatanattaa taatgacaaa attaatttca t 391

<210> 15558  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15558



aagttagtat attaataaag agaaaatata catataatat ataattctgag acatgatatt 360  
 ttgtcaatga aaactaataa tataaaaagta tgtgattttt tattggaata aaatatatag 420  
 ttttaataa aattatat 438

<213> Glycine max

<223> unsure at all n locations  
 <400> 15561

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 tattaaggga ctcaatcggg catccgagta aaaagttatt gttgtttgaa tttgtcaga 180  
 gtttcggcat tccatttcca gcctctcgat atattacggg actcaatcag acatccgagt 240  
 aaaaagctat tgtagtttga atttgtcag ggctccagca ttccatttcg agcgtctcga 300  
 tgtattacgg gactcaatca gacatccgag taaaaagtta tagtcgtttg aatttgcaca 360  
 gagcttcgac attcaatntc gagcgtttcg atatattacg ggactcactc agacatccga 420  
 ctaaaaag 428

<210> 15562  
 <211> 435  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15562

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 ataaataatt atatgtaact aattgatagt gtaaaagcta ttaacctaac aatacatgct 180  
 tattaactct taaaaattgg taaaactcgc tagaaaaccc aatcatalatg gttgaaaaaa 240  
 gacgaagaac taatattgaa taattggcgc gcttcaatgy tttttttca ttgttttca 300  
 ttttttata tatttaactc aataaaaaat acttttgaac tagaaaaagg taaatgtca 360  
 agttacaaaa ggctgtgtct gadaattacg tataaaatat tttcatttcc tatattatta 420





<211> 407  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15565

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 ggtttggtg ggtttggtg ggtttggtg ggtttggtg ggtttggtg 240  
 ggtttggtg ggtttggtg ggtttggtg ggtttggtg ggtttggtg 300  
 ggtttggtg ggtttggtg ggtttggtg ggtttggtg ggtttggtg 360  
 ggtttggtg ggtttggtg ggtttggtg ggtttggtg ggtttggtg 407

<210> 15566  
 <211> 441  
 <212> DNA  
 <213> Glycine max

<400> 15566

tcaaacatcag accacttcca ggggtgctgga atacttccat ggacttgatg gggcctatgc 60  
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 ttacctgtgt caactttatc agagaaaaat cagacacctt tgaagtattc aaggagttga 180  
 gtctaagact tcaaagagaa aaagactgtg tcatcaagag aatcaggagt gaccatggca 240  
 gagaatttga aaacagcagg ttcactgaat tctgcacatc tgaaggcatc actcatgagt 300  
 tctctgcagc cattacacca caacagaatg gcatagttga gaggaaaaaac aggactttgc 360  
 aagaagctgc tatggtcgat ctccatgcc aagaacttcc ctataatctc tgggctgaag 420  
 ccataaacac agcatgctac a 441

<210> 15567  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15567



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 agatttccgt ggcagcgatc atggcaaaag gggtttcgag gccgagggat ttggccatgc 300  
 ctatggcgat gccggtcttg ccggtgcggg gctggcctgc taggaagact gcgcggacgg 360  
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<210> 15570  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<400> 15570

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 aaaacaccac attcaacctat ccccttggca tttttgccta taggaggatg ccccttggc 180  
 tatgcaacgc ctctggtacc ttccaacygt gtatgcttag catttcaas gattctctag 240  
 agagttgcac agatgtgttt atggatgatt ttactgttta tggatctctt ttgatgcac 300  
 gtttggatag tctaaataga gttcttaata gatgcattga aactaacctt gtgc 354

<210> 15571  
 <211> 364  
 <212> DNA  
 <213> Glycine max

<400> 15571

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 ccttaagtca ggaaatatgg attgacaaaa gtatacatca ttagtgctcc tgcacttact 180  
 atctatattg tagatacaat gccgcgcact tgatgagata aatgccggtg tgtgtgatgg 240  
 gaagacatat gaagaaatca agaagaacat gccagaggag tacgagtatg tccaaaactt 300  
 gtaatttgtc ctatttccag ttgaatgcta ctggtacatc agataaaaaa aaccagtgcc 360  
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<210> 15572  
 <211> 440  
 <212> DNA

<213> Glycine max

<400> 15572

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ctaaagctt ccaaaagctt ctattttttt ggctggaaaag ccaaaggggt ttattctttt agggaaacagc 120  
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ctaaagctt ccaaaagctt ctattttttt ggctggaaaag ccaaaggggt ttattctttt agggaaacagc 420  
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<210> 15573

<211> 445

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15573

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ctaaagctt ccaaaagctt ctattttttt ggctggaaaag ccaaaggggt ttattctttt agggaaacagc 120

ctaaagctt ccaaaagctt ctattttttt ggctggaaaag ccaaaggggt ttattctttt agggaaacagc 180

ctaaagctt ccaaaagctt ctattttttt ggctggaaaag ccaaaggggt ttattctttt agggaaacagc 240

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ctaaagctt ccaaaagctt ctattttttt ggctggaaaag ccaaaggggt ttattctttt agggaaacagc 360

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ctaaagctt ccaaaagctt ctattttttt ggctggaaaag ccaaaggggt ttattctttt agggaaacagc 480

<210> 15574

<211> 391

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15574



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 gagagcatgc acacaatttc ttgaattctt cccagtactc atacaggctt tctccactaa 300  
 gttgattgat aactgaaatg tcttttctga tggcagtggc cctagatgca aggaagaatt 360

.....

<210> DNA  
 <211> Glycine max

<223> insure at all n locations  
 <400> 15577

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 gaaatcccca aagytgcccg gtaagcggtc ctatgggcct atagagcacc ctttaagtgc 180  
 ttgtcccaat cctttntgtt gggctgcact agcttctgca acacttggtt tatctctcta 240  
 ttaaaaaact cgccttgctc attagtttat ggatgataag ctgcaacaat tgtatgaaca 300  
 accccatact ttggagcaa ggatgccaat gacttggtat agaagtggct ccttggtca 360  
 ctgataatgg ctctaggctg actacaacct gcaaaaagtt agatctcaca taatccacaa 420  
 caac 484

<210> 15578  
 <211> 268  
 <212> DNA  
 <213> Glycine max

<400> 15578

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 gtgaaaagat atgaccattt gaatttctcg agagcttccg acgttagatt tctagcgtcg 180  
 cgatatattg aattcctgaa tggagctcc gtgtgaaaag ctttgacct atgattttct 240  
 cgaaaagctat cgtggtcaat ttcgagcg 268

<210> 15579  
 <211> 315

<212> DNA  
 <213> Glycine max

<400> 15579

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taattatgaa ttttttaatt taattataat aggttggttg atgttttg ttgttggttg 120

taattatgag aaaaagaata aagaatgagt tgaaatgaat acgagataaa tgatgatgtg 300

atgactactg aaaaa 315

<212> 15580

<213> 384

<214> DNA

<215> Glycine max

<220> unsure at all n locations

<400> 15580

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aatatatgtc caacatcgat ttccaatact aaactgatgt ttacaaaatg atggtaacgt 180

taacatcggc tttttccaat ataccgatgt taactagtca taacttatca tcggatctca 240

tataacctat gttagcgtac atcagttaac atcagttcct ctaaagccga tgttatcaaa 300

ttadagttaa caattgggtg taccagaaac caatgttaac gtcaccttcg ttaacatcgg 360

atttttagaa atacctatgt taac 384

<210> 15581

<211> 437

<212> DNA

<213> Glycine max

<220> unsure at all n locations

<400> 15581

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gtaaavatat agcctatgtt acaaacatac taaagggttg tggactacat gctgatattg 120

ggataacctg ttttatagag cgtagcctcg taaaaattga aaagaacaaac aaactttgaa 180

tgcacccctt accccaacaa atgggaagag agataattcg tgggaagttca ataaaggaac 240  
 ttgggaagcg aagtcgattg tggtttcctg aggatgtact tgatgtattg attgtcgggt 300  
 ttgtagagga aattattaaa aacagaggag agaagagaga caaacgtat gtggaggaaa 360

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<210> 15582  
 <211> 366  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15582

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 acctaaatat tataaaaaata aattattgaa acgatggaat tattgttttt ttaaacatgt 180  
 attatgaatn taaatgctaa taaaaaaaata atagggatat atttgaattt taattatctt 240  
 aaaataataa ctagtcttcta tgtaactgat aataaaaaat ggtctttctt ttagtgtatc 300  
 ctatacaaat ctaaaaataat tggataataa cactatttgc taacaaatat catctattaa 360  
 taaaat 366

<210> 15583  
 <211> 448  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15583

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 tatgtctctg tttggttgaa caagctacaa aaggagagag caagatatga agadccaatg 180  
 gttuatacgt gacagagat gaaaaagatc atgaaggaagc agtatgtccc guctagttac 240  
 tcaaaaggact tgaaattcaa gctccataaa cttaacaccag gcaacaaggg gcttgaggag 300  
 tattcaagga aatggatgtg ctcatgattc aagcaaagat tctagaagat gacgagggaa 360



ctatggctcg atttcttaat ggtttgacta atgatattcg tgatattgtc gagctgcaag 420  
 agtttgttga atggatgatt tgcacaca 443

ctaagcttga atcggacacc cytgtgaaaa gtgatgacaa tttgaatctt actagaactt 60  
 cpyttgatca ttttcgagtg tcaactatgtg tgatgcgcca aaagaggaca tccaagctat 120  
 atattatgac catttgaagc tcaaaagagc tatcgtagat caattctgag cgggtagtaa 180  
 tgggattatg cctgaatctg acgttgatat gaaatgctat gaccatgtga agccgtaacc 240  
 accttggaga gcacagtata gggcctaact agcatatatg cgcctcaaat gcacattcgc 300  
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<210> 15585  
 <211> 446  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15585

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 ggcaatagat ctaaattattt gggaagccat agaaataggg ccttatatac ccaccacagt 180  
 ggaaagagtt tcaatagatg gtagttcacc aagtgaagc ataactatag aaaaacctaa 240  
 agatagatgg tctgaagagg atagaaaacg agtacaatac aacttataag ccaaaaatat 300  
 aataacatct gccctgngaa tggatgaata tttcanggtt tcaaatgtga agagtgttaa 360  
 ggaaatgtgg gacactcttc gattaacaca tgaaggaact acggatgtta aaagatctan 420  
 gataaatgca ctaactcatg agtatg 446

<210> 15586  
 <211> 398  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15536

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ttgtanagtt tgtttctgaat tggtaacatt tgttttcggt aaaagaatta cagctcggcc 300

accagcagtg gcatgctaatt aatacattgt gatttgaaca ggtatcataa caatcataca 360

tgttaagtggg cttagtggtt tattttttat gtctttttg 398

<210> 15537

<211> 238

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15537

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agatgatggt acaacgggtg aaccaggagc ggcattttctt ttgggtgatga agccatggag 120

aaacagagcg ttgggaatga ttccatacat ctccagaaaac tattgggaaa tgcctggaaaa 180

aaacagaatg ccaagcacat ataaatttga atgaagaatg taaagggggcg tgtgaagcaa 240

cggctogaatt tgcttttgtg tgaacgtgct attaatgtta agtgattc 288

<210> 15538

<211> 431

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15538

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gaatgttgtt gatgttctta atgaagtga tggggctgtt gaggattacag gacttaatat 180

acatgatcaa ccaaaagggt ccccaagat gaagaagaat gctttgaaag ttcaataatca 240

agttgttggg gttgggtgata tcacaggact taagaaacgt ggtcgaccaa aatgttcaat 300  
aaagaaacag ggtactgttg tgtacgcttt caataatgaa gtgccatgtg agattgcata 360  
caagatctgg aaaatataaa tgcagacaat ctgtgtcaaa agtttagatg anttgcgaagc 420

<211> 15589  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15589

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actgatagaa ctgtcctgag atgtcctaag tgcacatcta ggctcctaact gtacactaaa 120  
atatcatcaa aataaacaac taagaatcta cctatgaaat cctttaagac atgatgcata 180  
agcttcatan aggtgttttg tgcattagtg agcccaatag gcacactag ccattcatac 240  
aaaccaaact tgggtcttgaa agcgggttat cactcatcac cctttttcat tctgatttgg 300  
tgatacccaa cttaagatc aattcttgaa aacatattg 339

<210> 15590  
<211> 391  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15590

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ttttgggatt gagctcgggt catctgagta gccatctgcc ccataaatt tgcagactc 180  
tgaatgaagg ctcttctctc tagctgaaat tgcatactct ggatggctat ttgcctcact 240  
aaactctcra atgaaggttg agacggggcc atagttctct gtagtctctg ttgtgtgtgc 300  
tgcattggag gatgacata tggcctgctt ggacaaacag cattctgcat aagagggata 360  
agttgttgtt gttactgttg tgggtgtgga g 391

<210> 15591  
 <211> 292  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 15591

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 ttcaaatgaa gcaacttgaa tatgaatata aagcaataat aaataaagga gattaacgga 240  
 agagaaaatg caaactctatg tttatacttg gtcggccaca ccttctgtgc ta 292

<210> 15592  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15592

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 tcccttttct tctttcttag ttntccttcc cataacttga gggaaactcaa ctcatctaag 180  
 attctagaga gagaaagtcc ttatgactag taccctcacc attaacacta gatgaaagat 240  
 gactcttatt gggttctaag ttgtggttct ttcttgctgg gggtttgcaa aaggtaaaag 300  
 ctagggttta aaagaactca agataagcgt gataatcaag aagaaagtat tatgtaataa 360  
 caagataaac taggtgtgac tattaaagaa aatatgctat g 401

<210> 15593  
 <211> 465  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15593

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aagpatotta aggagtteca tattgtctat tectccatga aacccctga tgttcaggaa 180  
 gatcatatct ttctaaagge ttttctctat tctctggagg gagtgggaaa agatttggtt 240  
 tattaccttg cctccaggtc cattaccagc tgggatgacc ttaagagggg gttcttggaa 300  
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<210> 15594  
 <211> 405  
 <212> DNA  
 <213> Glycine max  
 <220> unsure at all n locations  
 <400> 15594

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 cattgtggat tcagtcacaa aaccaacttc attatgttgg actatctaac acgngattt 180  
 tegtctctat cccacacag atgtgggaag cactntctca ggctttgtat ttaaacctct 240  
 ctogtaatca tatccatggt gagattggya ctacattaaa gaatccaata tctatcccaa 300  
 ctattgatct aagctcanat cacttgtgtg gtaaattacc ctatcttctca agtgggtgtg 360  
 tgggttagat ctctcaagca attcattctt tgaatccatg aatga 405

<210> 15595  
 <211> 319  
 <212> DNA  
 <213> Glycine max  
 <400> 15595

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 aactctgcat tctaaaacct aaacctaaa ctctaaaaca caagggtag acaataaacc 180  
 ctacatatta aacctaatc ccttaacctt aaaattttaa ccattaacct ttaaccttac 240  
 ctcttatacc ccttaacctt aaatataaaa aataaacctt aaaaaatata tcttaattc 300  
 taaaccttaa accttaac 319

<210> 15596  
 <211> 420  
 <212> DNA  
 <213> Glycine max

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 tctctctaat atttacaata gacctctca acctcagcag caagatcaac cacagcaaaa 240  
 taattatgac ctctccagca acagatacaa ccttggatgg aggaatcaac ctaattctca 300  
 atggctctagc cctcagcaac aacaacagca gctgtctctt tcttccana tatgttctgtg 360  
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<210> 15597  
 <211> 334  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15597

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 atatactaatt agttatgtta tcttctgtct gtatgttgat gacatgttga ttacaggatc 180  
 tagtatgata gaaattaata gtttgaagca atagttggca gaaaactttg aaatgaagga 240  
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 ttgaagttg tctcaggaga aatatatata caag 334

<210> 15598  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15598

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 ttaattggat gctgattga ggcccgtaat atatcgaaat gctcgaaatt gaatgttgaa 180  
 atttctgagc ctctgagc atttctgagc atttctgagc atttctgagc atttctgagc

aagctctgag ctatctgaaa cgacaacaac tttttactcg g 411

<211> 15599  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15599

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 ttaagggaat cttcagaca tccgagtaaa aagttattgt cgtttgaatt tgctcagagg 180  
 ttcaacattc aatttcgagc gctcagatat attacaggac tcaatcagac atccgagtaa 240  
 aaagatattg tcgctgaat tggctcagat cttcaacatt caatttcgag cgtctcgata 300  
 tatgacggga ctcaatcaga catccgagta aaagttattg tcgtttgaat tgctcanagc 360  
 tcaacattca atttgagcgt ctcg 384

<210> 15600  
 <211> 460  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15600

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 tttctactga ccccttcgtt ttctcaatn ntggagccat ctttcgatat attacangga 180  
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<212>      DNA
<213>      Glycine max
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 GGTATTTCOA AATTCAAACG ATAATAACGT TTTACTCGGA TGTCTYATTG AGTCCCGTAC 300  
 TATAACGAGA CGCTCGAAAT TGAAAAAAGA TGCTCTGAGC AAATTCAAAC GACAATAACG 360  
 GTTAACTCAG ATGTCCGATC CAGTGTCTGA ATATATCG 399

gacacataaaa	tactcagctt	ctagttttaga	tgatgcagat	gattttgtaga	tacctctatg	60
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ctctctcaatt	aaatttttgg	cttcagtagg	agtcattgtct	ctaaaggctc	caccactggc	180
agcatctatc	atacttctct	ccatattact	gagtccttca	taaaaatatt	ggagaagaag	240
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ctcttatagg	ctctctccac	tgaattctct	aatacttgag	atatacttcc	tgaat	354

tttcttatgt ttaangaagt aagatgggng ctgagatgc atntaaact tatctcaacc 60  
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aagatatgca tatggaagat gaatgttget caagatacaa ccaaagaatt atgacacaag 240  
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 ataaa 305

<10> Glycine max

<223> unsure at all n locations  
 <400> 15606

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 ttattttctcc agaagagtat gattgtatgt ttggaaaaat aagtcagaat cttttcaaaa 180  
 attagagaaa ttgcatacto ttatggaaa tcaacttggg acaaaattaa aagttttaag 240  
 gactgacaat ggcttggagt ttgtttcaga gcagttcaat gagtnttgca ggaaaatagg 300  
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<110> 15607  
 <111> 319  
 <112> DNA  
 <113> Glycine max

<223> unsure at all n locations  
 <400> 15607

agctacttct tctaagttac catgnagaaa agccgnnngt acatccagtt gatgtaattc 60  
 caagttaaaa taagcaacta atgccattat gatgcgaaag gaatctttca tggatacagg 120  
 agataagggt tctttgtagt caactctatc ccttcgagcg aatcctttgg caaccaatcat 180  
 gtcttgtgtc tctcaatgtt acctaatgaa tctttcttgg tatcgaaaat acatttacat 240  
 acaatacget ttatccatt aggacatagc actagatccc atactgtatt atttccata 300  
 gattccatat catctttca 319

<210> 15608  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15608

agettgctct tgaggatgta aggatatttg cagctaataga acaactttct taactatttg 60

ttcaattctt tttcaactggg agcaatcagc cggatgaaga accattccat cagaaatccc 300

ttcatttgca tggcatgta ggtgttttgc gtcgtcctcg ttagcaana gacgcttaaa 360

tttgggaatg attggaagat accac 335

<210> 15609  
 <211> 467  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15609

ctcagcttgt atttgtntat ttaatccctg gaacatactc cattgttata atctgcattg 60

gaaacataga taatagataa ataagttcag acataaaatg gaaaatatgt gcattactac 120

atttggcata ataagagcca tgaaggtaa acctgtggtg tggataatc ccagtagatt 180

gtaggaactt tcacataatc catgttctta aagttacttg caaacaatc tgcattagca 240

gctccttgg tgaatcaat ctctgaaaa ttattaatcc atgttgcagt aacaggatcg 300

gagaatgta ttgtctgaga acacgtgcat acatcatacc aaaacaacag attcacaact 360

aaagcaggaa ctgaaacagg aatgaccact cttatgtgtg atgatcttaa gcccatattt 420

gtattgtgta gatggtttcc ttacatcaag ttttccata cataaac 467

<210> 15610  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15610

agcttatatt ctccaatgta cagattataa agcaagttcc acatgatata tgcattgaaaa 60

acaaagataa cagaaattaa aattgggttt cctcccagga agcgcttctt taacgtcatt 120  
 agctngacac atttacctga atgggtgata tcaaataaac agtggttatgt gccctttcan 130  
 attctcacc atggtacaat tttaacctct agccatttac taccatggtt ctgtcaggat 240

<310> 15611  
 <311> 410  
 <312> DNA  
 <313> Glycine max

<323> unsure at all n locations  
 <400> 15611

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 gtgataacaa gtccagcagc atctagggaa agctcttctg cttctattct cctcattatc 120  
 tctatgttg aattgatatc ctctctcgat tgaagccctt gcttaagaag ctgttctagc 180  
 ttgtttcttc caagtgaatg accagtgagc accattggca cattcaaggc acctgaaaga 240  
 agagcagcac tatctccagc atcagcataa tgcctatgaa taacgtgtgg ccacactggt 300  
 ttccccccgc taacttgctc acccaatact tatgacatat ngagaatgtg agctaaagcc 360  
 ccattetaaa attcttgaat atggggccaa agaagttctt tctgtagata 410

<210> 15612  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15612

dggctgcttc cttctctttt tccctcttc caanogegct agcagcgggt tagctcttg 60  
 aatgtacatc tctgtaaget tcttcagata cccaattgct cctgtatgaaa tctcagtta 120  
 cttacatttc ctactggag aaagtgatec aaggcaagaa actgcatact ttttggagt 180  
 ctctcggggg ctgggatcaa gcaactggac cataattggc aaactttat cattctctt 240  
 aacctctctc cgtttctgag acagaacat taagcttgaa ttgcttgag cagcagctc 300

tctagcatta tttgctgtat cottaagcat ctatataata taagggatgc caccggetac 360  
 accaactatc tttttcatct ccattgagct gcaaacact 399

<210> 15613

<211> 15613

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 acgctcgaaa ttgaacaatg gaagctcttg agcaattcca atgggcataa ctttttaactc 110  
 ggaggtccga ttcaggcgca taatatgtcg agacgttcga aatagaacaa tgotagctct 140  
 tyagcaatto aaattgtcat aactgttcac tcggaggtca gattcaagca cataatatat 240  
 cyagacgctc gaaattgaac aatggaagct cttgagcaat tcggatggtc ataactatbt 300  
 cactcggacg tgggattaag gcgcataata tatcgcgaag ctcgaaattg aacaatggat 360  
 gctcttgaac aatacagatg gtcttaactt ttcactcgga tgtacggtc acgcacataa 420  
 tagatcga 428

<210> 15614

<211> 159

<212> DNA

<213> Glycine max

<400> 15614

ccatgtatcc aaagcccgta ctaaagcata caactcctta tcataagttg aatagttcag 60  
 ggtaagacca ctttaactttt cactaaaata agcaattgga tggccttctt gcacaaacac 120  
 agccccaatc ccaacatttg aagcatcaca ctttaatttc 159

<210> 15615

<211> 402

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15615

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 caatatacgt aatacgttaa atatatagca taaacaaaac aatcacccta attccatgaa 120

cacatacaaa tgcagatag tggacctaga tgatttatca aaggggtata ttagaagcat 180  
 gtgtaagtaa ctatgtacaa gaaattttct taaaaatgcaa aacatgtatc atagtaagat 240  
 gatgtatcaa agcataatat gtatattaga gcaaaaagat tgacatgaat gaaaatgcat 300

<210> 15616  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15616

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 gtgacatcg gaggtgaatt tcaaaatgag tcttttgana acttttctga agaaaatgga 120  
 attcaccata attttcaacc ccaagaacac ctcaatagaa tggcattatg gagaggaaaa 180  
 atagatccct tgaagaaagt gcaagaaccc ttctaaacga aaccaggttg cctaagtact 240  
 ttctgggcaga tcttctacat actgtttgtt acaccttgaa aaaagtactt attagacctt 300  
 ttctgaagaa gactccttat gaattgtata aaggaagaga accaaacact ttacacctga 360  
 gagtttttgg ttgtaagtgt ttctttttta caatggt 397

<210> 15617  
 <211> 440  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15617

tcaacgtggc aaggcttgtt aatttatcca cttttagtta atttttatta gaatattaat 60  
 cacacatctt tattttaaaa gaacttaaaa aagggtttga gcaatttgtt ggcccaaaat 120  
 aacaatatac aagtataggt attaaactct tatgagaaaa aaaatttatg cactgattga 180  
 tatttatagt ataataagtt ttatacaatc attcaattac aatcaatcat gtataataga 240  
 ttntttgatt tttaaaataa ttataaagta attcaaaaga taattttgtg ttttaactaa 300  
 aatataaaat tgttttacct tatcaatgta taggtattaa agtctaaaag ataaaaataa 360

gattgaatat gtgcaccttg agaaataatg agtttttaat aattatgggtt attttgactg 420  
cataattatg aattactata 440

15619  
15619

tgccttgccc ctgatatat ttgaaggact catgggcact attaatgaca aattccttgg 60  
gataaaggta gtgttgccat gtttccaaag cccgtaactaa ggcatacaac tccctatcat 120  
aagttgaata gttaagggtta ggaccactta acttttccact aaaataagca attggatggc 180  
cttcttgcac caacacagcc ccaatcccaa catttgaagc atcacactta atttcaaaag 240  
atttttgana gtttggcaac gaaagtatgg gggcattagt tagcttttgc ttaagaacat 300  
tgaaagcttc ttcttgtgtc tctccccatt tganaccaac atttttcttg agcacttcat 360  
tgagaggtgc tgccaatgtg ctaaaaatcct tcacaaatcg tctataaaa 409

<210> 15619  
<211> 318  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15619

agcttcaatt ttgcaactta ggagttgagc aggtaaaaaa gattcgtctt caaactctta 60  
gaggtgactt tgagcgtttg tntatggagg agtccgagtc attttctgat tttttttctc 120  
gagtattgcc cgtaatcaat caacttaaaa gaaatgggtga agatgttngat gaagtgaagg 180  
tcatggaaaa aataacttcca acttttatatc caagttttgc ctccattgtt accaacattg 240  
angaaaacaa ggattttaaag accatgacta ttgagcaact catgggttcc ttacaagcat 300  
atgaagaaaa acaaaaaga 318

<210> 15620  
<211> 409  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
 <400> 15620

ttcttttggtta taaactatgt ggggcaaaaac ttcattacta ttattccagta tatacaaatg 60

ttcttttggtta taaactatgt ggggcaaaaac ttcattacta ttattccagta tatacaaatg 60

ttcttttggtta taaactatgt ggggcaaaaac ttcattacta ttattccagta tatacaaatg 60

ttcttttggtta taaactatgt ggggcaaaaac ttcattacta ttattccagta tatacaaatg 60

ttcttttggtta taaactatgt ggggcaaaaac ttcattacta ttattccagta tatacaaatg 60

<210> 15621  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15621

ttcttttggtta taaactatgt ggggcaaaaac ttcattacta ttattccagta tatacaaatg 60

ttcttttggtta taaactatgt ggggcaaaaac ttcattacta ttattccagta tatacaaatg 60

ttcttttggtta taaactatgt ggggcaaaaac ttcattacta ttattccagta tatacaaatg 60

ttcttttggtta taaactatgt ggggcaaaaac ttcattacta ttattccagta tatacaaatg 60

ttcttttggtta taaactatgt ggggcaaaaac ttcattacta ttattccagta tatacaaatg 60

ttcttttggtta taaactatgt ggggcaaaaac ttcattacta ttattccagta tatacaaatg 60

ttcttttggtta taaactatgt ggggcaaaaac ttcattacta ttattccagta tatacaaatg 60

<210> 15622  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15622

ttcttttggtta taaactatgt ggggcaaaaac ttcattacta ttattccagta tatacaaatg 60

ttcttttggtta taaactatgt ggggcaaaaac ttcattacta ttattccagta tatacaaatg 60



gtgacacctc caattctttc ttttgcctct tttctgctgc gttccatgat gtcgagacgg 180  
atgttgtgac atcgtggctc cagtgcctgt tttggcagga acaaattctg tcatgggtgt 240  
cttgcacgca gacttaggat taaatccaag tctctctggg ttctcaaat tctttccaag 300

<210> 15623  
<211> 321  
<212> DNA  
<213> Glycine max

<230> unsure at all n locations  
<400> 15623

caactcaagct tgcaccaggtc gagaaggagc ttgtccgaac aatttagctt tatcaaagan 60  
aacatgtggg ccacacatga ccaataaag gaaaagttaa gcctagcggg aactcacaaa 120  
caaaggctag aggaacagta cgtgaaggtt taagtctctg aagtggaaaag ggaagcaagg 180  
gaaaggggtga tcgattcatt acacagagaa gcaatgatgt ggatggatag gttctctctt 240  
actgaaatct tgatactgtg gacagatgtc gtacaggatg tcacgacatc gcgcttcaga 300  
aatgcagct agtatatgac cgtatgaaca gaataaaca gtaaataaca caagagaatt 360  
gtaacccagt tgggtgaaac gtacctaat ctg 393

<210> 15624  
<211> 338  
<212> DNA  
<213> Glycine max

<400> 15624

agcttcatca tccaatttcg agcgtctcga tatatgaagg gactcaatca gacatccgag 60  
taaaaaagtt ttgtcgtttg aattggctca gagcttcaac attcaatttc gagggctctg 120  
atatattgcy ggactcaatc agacatcga gtaaaaagtt attgtcgttt gaattggctc 180  
agagcttcaa catccaattt cgagcgtctc gatatatgac gggactcaat cagacatctt 240  
agtaaaaagt taattgcgtt tgaattggt cadaggttca acattcaatt tcgagcgtct 300  
cgatatacta cgggacctca tcagacatcc gagtaaaacd taattgcgtt tgaattgctc 360  
agacgtcaac attcaatttc agcgtctc 393

<210> 15625  
 <211> 312  
 <212> DNA  
 <213> Glycine max

gagcccaattc aaacgacaat aactttttac 120  
 tgggatgtct gattgagtcg cgtaatatat cgagaccctc gaaattgaat gttgaagctc 180  
 ttagtcaatt caaacgacaa taacgttgta ctccggatgtc tgattgagtc ccgcaatata 240  
 tggagacact cgacattgaa tgttgaatct ctgagccaat tcaaacgaca ataacttttt 300  
 actccggatgt ct 312

<210> 15626  
 <211> 312  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15626

tttcaganaa tattctcaac agtcacatct ttttatgtgg ttcttgaatg gctatcaaag 60  
 gccatatat atgtgacttg agacacgaat ttgctaagag tntttcagaa caaaaaggctc 120  
 ttatctcttt ataaagaaaa atcgttttat cctcttaciaa attccttggc caaattactt 180  
 gtgattcaat aaggaattat ttgagtgtc aaattgttca atctatctct ttcaagagag 240  
 atttcttctt ctcttctctt tcattctgan nagggattaa gagaccgang gtctcttgtt 300  
 gtgaaataat tc 312

<210> 15627  
 <211> 255  
 <212> DNA  
 <213> Glycine max

<400> 15627

accattaaaa aaagctgtcc ctccatccat ctgttgcaac tcaaggtcaa aatgagcaac 60  
 caatgccaaag attatagcaa gagaatcttt cttagatact ggagagaaaag tctctttata 120

atctattcct tcttttagag tagatccctt acaacaagac ttgccttgta tctctcaatg 180  
 ttaggtaatg aatcctttttt ggtcttatag acccatttac atccaatggc ctctgcccc 240  
 ttatggagact ctaca 255

<223> unsure at all n locations  
 <400> 15628

ggagatgaaa aaaatcatga ggaagcggta tgtgcgggct agttactcaa gggacttgaa 60  
 attcaagctc caaaaactaa cccaaggcaa caaggggggtt gaggagtatt tcaaggaaat 120  
 ggatgtgctc atgattcaag cacatattga agaagatgag gaggttaacta tggctcgatn 180  
 ttttaatggt ttgactaatg atatccgtga tattgttgag ctgcaagagt ttgttgaaat 240  
 ggat 244

<210> 15629  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15629

tgcattcagg aacctaacaa acaatacaag atgcttcaact tccagtcttg ctccaatgaa 60  
 taaatcttta taagtaaaac atgtatgttt attctaactc accccatctt ggagcttgtc 120  
 ctctacagca gtggcaccaa gaagaattag gttctttctca atcttatctg atacttctc 180  
 aatcattata tcttgatcag cactgactac attcttggcc ctagagaatt tactatcaaa 240  
 ctcttgtat tcttctgcat caagttcag ataggccagt ataaagggtt tcaaaccgc 300  
 atcagcatac tcatgcacat ngtcatggt tttctcttca aactccttcc tattcttggc 360  
 aagcctttca aacatggtgc tgcattgaaaa catcactc 398

<210> 15630  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 15630

agcttggttg taaactatat gccttggtta acccggtaac ccaactggcc atgaatcaaa 60

atctgcacc tgcgcgtaga ctctatgggt tatgctctct tgacgaccac cacacagacc 120

ctctctctct cctctctctct cctctctctct cctctctctct cctctctctct

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ctctctctct cctctctctct cctctctctct cctctctctct cctctctctct

cttcacaaca gtagctacaa caccagcctt atttgtraaa tgttgctggc ccaagttgac 360

ataagtttca ctacccgata cagcagtaac aacaacaaca gca 403

<210> 15631

<211> 392

<212> DNA

<213> Glycine max

<400> 15631

gctttatgta aactgatgcc ttgtaaccc ggaacccaac tgccatgaat aaaaattgcc 60

ctgtgcgtag ctctatgggt atgctctct gcgcacacca cacagacctt tgccttggtg 120

gcaacaatct gaagcaattg agcagcctaa agcttatgct acaaacatct acagtagacc 180

tcctcaacct cagtagcaaa atcagccaca acagaacaat tatgacctct ccagcaacag 240

gtacaatctc ggggtggagga atcataccaa tcttagatgg tcgagtcctt cacaacagta 300

gcaacaacac cagccctatt ttcaaaatgt tgctggccca agtagaccat acgttccttc 360

accaatccag cagtaacaac aacaacagca gc 392

<210> 15632

<211> 286

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15632

tatcgagacg ctcgaaattg aatggtgaag ctctgagcca attcaaacaa taataacggt 60

ttactcggat gctcgtattg ctcccytaat ataacgagac gctcgaaatt gaatgttgaa 120

gctctcagcc aattgaaacg acaataactn ttactcggaa tgtctgattg agtcccatca 180

tatatacgaga cgcctcgaaat tgaatgttga agctctgagc caattcaaac gacaataaac 240  
 tttttcacgg atgtctgatt gagtcccgta acatatacgag 280

<210> 15633

<211> 15633

agcttttatca tcagaccact tncaggggtgc tggaaactact tcacatggac ttgatggggc 60  
 ctatgcaagt tgaaagcctt ggaggaaaga ggtatgcta tgttgttgtg gatgatttct 120  
 ccagatttac ctngtcaac tttatcagag agaaatcaga cacccttgaa gtattcaaag 180  
 agttgagtct aagacttcaa agagaanaag actgtgtcat caagagaatt angagtgacc 240  
 atggcagaga gnttgaaaac agcaagtta ctgaattctg cacatctgaa ggcatactc 300  
 atgagttctc tgcagccatc acaccacaac aaaat 335

<210> 15634

<211> 325

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15634

aaattgagtg gggagaaaat tttcactaat tatgattagt gaatttttagc tatggttcag 60  
 cccaccaatc caagatcaat tccaagattc tcactaagt gtgcttaggt gtcatgaggc 120  
 atgtaaagca tgaaggacat gcacaaagtg tgactatatg atgtggcaat ggggtgtage 180  
 aagcaaataa tcacctcccc ctctaataat taattggatt ggtcttctcc caattcaatt 240  
 aaatntattg ctcaacacac acatcaaata tggacttaat taacgtgaaa ttacaaaact 300  
 acccctaata cacaactat agtct 325

<210> 15635

<211> 232

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15635

ataanatate gagaagctcg aaattgaaaa tcggaagctc ttgagcaatt caaatgggtca 50  
 taactttctaa ttggaaggctc cgattgaggt gcataatata tcgagacuct cgaaattgaa 100  
 gaattggaagc tcttgagcaa ttcaaatggt tataactttt cactcggagg tccyatadac 150

<212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15636

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 gaaattactg ttcattgtga agagactgtt gtttcaaaga gtgcagttga gatgggtctg 100  
 cgttgtttctc acctggataa cagggatgtc tttttctaaa gtgtacgtat tctatatccc 150  
 atattaatgt cccctattta attaaatata tttttttttg tttgtcattc gaaacatctc 200  
 tcatatattg tttttctgta ngacctctt ctaagaatat caagaatggt tgagagtggg 250  
 cgttatattc ctatatgcaa gactgaagtt atcgacgaca atttaaattc caaatggaat 300  
 catttgtct 350

<210> 15637  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15637

agcttgtatt agtatacttc acctgtctgc ggtggcaatt aaactggctc taactctggc 50  
 tgcacttgac ccaattgggg tttttcagtc ttaacctctt cctgaacacg ggattttctg 100  
 ttctcraatg attgaaaactt ctttggggctc ttcttttctt tcttgagac ctcttgatag 150  
 ctttggtgtg attctgcgcg tcttaactta agcagcctca tctttttctt cagtgcagca 200  
 ttctccacct caaattttcg gacatcaaca ttggttggtt ctacctgtgc acctgcttta 250  
 gacaggcatt ttctatctca caaacttctt catagtgttt tctctatagat atgttttttc 300  
 ttttttaaga cgttcaactc acctttctct tctctcaat 350

<210> 15638  
 <211> 398  
 <212> DNA  
 <213> Glycine max

attcccttga ggaccttttg aggtcatgtg tcttaagca aaaggggaga gttttttt 120  
 attgatagag ttcacttaca acaacagttt tcaactetacc attggcatgg ctccctatga 180  
 agctntgtat ggtagaaggt gtatgacacc totatgttgg ctaaagccct gagaagacct 240  
 caocttatga attgaagtgg tacaacaaac caccgagaag gtcaagttga tccaagaaag 300  
 gatgaagact gtcagagta ngtagaaaag ttatcaggat aagagganga aagacttga 360  
 attcaggtg gtgatcatgt attcttgaga gtcactct 398

<210> 15639  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15639

attgaacaag cggagctct gcgtgtataa tcnagtgttt ttaaattntc acacagatgt 60  
 ccgatgcggg gaaataatat atcgagacgc acgaaattga acaacggaag ctctcgagaa 120  
 atttgaatgg tcataacatt tcactcggat gttcgatccg gggacataat ttatcgagac 180  
 gctcgaaatt gaacaaccga agctctcgac acattagaat ggtcgtaact nttaacgca 240  
 atgttcgatt ctgggacata actcatctag acgtcgaaa ttgaacaacg gaagctctcg 300  
 agaaattcga atggtcataa gttttcacaac cgatgttcga ttcggggaca taatatatca 360  
 agacgtcga aatttgacac cggagcttt cgagaaaatc gat 403

<210> 15640  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 15640

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gggagagggga aagaagggaa tgaaatnttg agagagaaaa gagggagaat gaggtctgaa 120  
gaggtctgaa gaggtctgaa gaggtctgaa gaggtctgaa gaggtctgaa gaggtctgaa  
gaggtctgaa gaggtctgaa gaggtctgaa gaggtctgaa gaggtctgaa gaggtctgaa  
agaatttcac ctatgggttc acccaactaat ccaagatcaa atccaaagatt ctccactaac 300  
tgtgcttang tctcatgagg catgtaaagc atg 303

<410> 15641

<411> 325

<412> DNA

<413> Glycine max

<423> unsure at all n locations

<400> 15641

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aatcttccaa tcatgtntcc anttcagcat ttgatactga aggcangggg agtactaccc 120  
aaaatgatgc aatcttcccc cgcaagggca ttggctagaa gactccaagt agattgggct 180  
agagatccaa ggaagggccc tagggttctc atgagcctta nggtagatnt cgagcccatg 240  
ggctaagtat gageccgctt atctttgtaa tattagatan ggtattcctt cgtctagccc 300  
tgtattttgg ctattctagt agtat 325

<410> 15642

<411> 357

<412> DNA

<413> Glycine max

<423> unsure at all n locations

<400> 15642

caaatccctt gggataaagg tagtgttgc atgttttcaa agcccgtaac aaagcataca 60  
actccttata ataagttgaa tagttaaagg taggaccact taacttttca ctaaaataag 120  
caattggatg gcttcttgc atcaacacag cccaatccc aacatttgaa gcatcacact 180  
caatttcaaa agatttttga aagttttcaa acgcaagtat gggggcatta gttagctntt 240



gcttaagaac attgaaagct tcttcttggg tctctcccca ttgaaaacca acattttctt 300  
 tgagcacttc attgagaggt gctgccaatg tgctaaaatc cgtctataaa aacttgc 357

<210> 15643

<211> 67

<212> DNA

<213> Glycine max

tatttatgat ctctctagca acaggtacaa tcccgatgg aggaatcacc ctacacttag 60  
 atggttgaat ccttcacaac agcagcagca acaacaacat acttatcttc aaaatgctgc 120  
 tggcccaagt ataccatagc tctcttcacc atccagcagc aacagggcca aaaacagcaa 180  
 acagtt 136

<210> 15644

<211> 349

<212> DNA

<213> Glycine max

<400> 15644

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 gtatacgtca cgcagatcaa aagaactctc tgggtgttgc gaggcagtaac tctcattgcc 180  
 ttttgacag aacatgagaa cattaaatc aaccttatgg ccataacctt cttacatgta 240  
 tctcttcttt gcataccttt gattccacc catgatgaaa gcaatatgac ttggcatagg 300  
 aaccacogat aaaatgggca acatgcctct tcttatataa caatataaa 349

<210> 15645

<211> 390

<212> DNA

<213> Glycine max

<400> 15645

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 gtgtgtgaat ccttctaca acttgcacg caacattgcc ttgatcaaac ccaagagcaa 120  
 cccctatdgc caatctatca ataa'aacag aagcaacaaa aataattaga tctatataa 180

tttttcttgta acctaaatat gaaataaaga aataattaat gatataattg atcgggtaat 240  
 catgacttaa ttttttaatt atcaagattt atcttattaa agtaattaat aagagttcca 300  
 aattgaaaat aatagtagtt attgaatact accaatgagg attccaacat gcttgaactt 360  
 .....

<13> Glycine max

<23> unsure at all n locations

<400> 15646

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 attggagtta gctgcccctc taggtcaaga agacctttgg caaaagcagc tgcagacatc 180  
 tgtttaatat gggtcctgaa aaaatggctc acatatgatg ccaaaggaca aattaggctt 240  
 ataaacaatg cctagacatc aaacacttcc aaaatgtata aaaatgtagc aaccaataat 300  
 gaaaaccact tagcctttct atgattaagg tgagcacaac tttaggccat acctgcacac 360  
 gacctcctc agagctgtaa atcttgagat catgacggta tgtactatgg aggcgaagaa 420  
 gccctgtacc ttcttcttgc atttaaacca cacaaaaatt tgcctttata catactac 478

<210> 15647

<211> 329

<212> DNA

<213> Glycine max

<23> unsure at all n locations

<400> 15647

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 tcatgagaat tgatgaaccc agtgataatc tcttggaca ataatttctc tgaatgaaa 120  
 tgataatcaa tctctatgtg tttagtcttt tcatgaaaga ctggatatga ggcaatgtga 180  
 agagetgctt gattatcaca gtataacttc atttgcacca cttcacaaaa ttccaactct 240  
 tggagaaaat gtttaatcca cataagttca catgtaacca tagccataga tgcataatca 300  
 gccctgcac tagatcgacc aacaacat 329



<400> 15650

ctagagcgggt tcccttatgt tatcaaacat aaaaagggat aaggtaatat tgtagccgat 60

gtcttttctc ggcgatcatgc attactttct atgcttgaaa canaattgat tgggcttgaa 120

ctcttgggt ccaagagctc taaacacata aaacatctt atggt

ctcttgggt ccaagagctc taaacacata aaacatctt atggt 340

<410> 15651

<411> 225

<412> DNA

<413> Glycine max

- <423> unsure at all n locations

<400> 15651

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agtttccgat gtttaatttc gagcgtatcg atatattata agtcgaatc ggacatccgt 120

gtgaaaatnt atgaccattt gaatttctca agagcttccg ttgtcaatat ccagcttctc 180

gatatgtgat ttgcctgaat cggacatccg tgtgaaatgt ttacc 225

<210> 15652

<211> 387

<212> DNA

<213> Glycine max

<400> 15652

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ggcccatttc attctcgggc ccatactgta aaccacagcat cgttttccag gtaacatata 120

aaacccaaag agagaaaagta gcaggaataa acagagagag aaagagagaa aataacagga 180

aaaaaatgaa aagaaactaa ataacatgat agcccacaag tttgttcata agccaaatgt 240

gatttggcat caaaaaataa cgtcaacctt ttgtcattca agtaagacag aacacatgtc 300

tgctatitcc catgaatcat ttacatttag ttaaatttta aatatcaata aaatatataa 360

gaaatattat agttatttta ataaata 387

15653

ATAAATACt ATCAAACtCC ttgtattctt ctgcacaaa ttcaagataa gccaggtataa 240  
 agggctcag acctgcacac ccatactcat gcacatgcc catggggttc tcttccaaact 300  
 CCG 303

<E10>	15654
<E11>	170
<E12>	DNA
<E13>	Glycine max

<400> 15654

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 aatttttcga gagcttcgcg tgctcaataa cgagcgtctc gatatactat actcctgaat 120  
 cggacctcgc agtgaaaagt taagaccatt tgaatatctc gagagcttcc 170

<C10>	15655
<C11>	373
<C12>	DNA
<C13>	Glycine max

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<023>      unsure at all n locations
<400>      15655
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ttaaaaaagg	ctntatatgg	ctcanagcaa	tatagatact	actcttttca	taaagagaaa	120
attacatgat	atsttatttg	ttcaaattta	tgttgatgat	attatttttg	gatctactaa	180
tgaattattg	tgcattggaat	tctctcatga	catgcaaagt	gagnttgaaa	tgttaatgat	240
gggagaactt	aattctcttc	tggatttaca	aattanacaa	accaagactg	gaattnttgt	300
caatcaatcc	aagtacttca	ttagaattaat	tcacatatct	tgaattggaaa	tcttancaca	360

tggtaccca atg

373

<210> 15656  
<211> 301  
<212> DNA

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ggagatagga agagagagag gagacgccac ttcaaagaga agatgagtct agaagaaget 120  
caccaccata ggaggccatg gataagagct tggaggaaga acgagatgaa tgaggggaga 180  
ggagagagaag agcacycaaa tttgtgctct aaatgagcct ctgaatctga agtttaatat 240  
ctcaatgato aaagttgaaa aaaatgcaca tacatgacct ctattatagc ctaagtgtcc 300  
a 301

<210> 15657  
<211> 299  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15657

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gttttcattggt cttgcagggtg aagatcctca taagcatctt aaggagtctc atattgtctg 120  
ttccaccatg aaaccccttg atgtccagga agatcatatc tttctaaagg cttttcctca 180  
ttctctggag ggagtggcga aagatttggt gtactacctt gctcccaagt ccattactag 240  
ctgggatgac ctttaagaggg tgttcttgga gaaattcttc cttgcatcta ngaccactt 299

<210> 15658  
<211> 352  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15658

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gccactgtac ctcttaactg ttcaagtcaa caagatggct taaggggtgtg attggataaa 120

caacttaatt aagtgccttat tagataagta cttatcatgt aagcccttat gtataagcta 180  
 tttctataat aaaagtagaa ataggattaa actctctcaa tataagttgt tagttatttt 240  
 catgaggtat catggagatt ggagatctta tagataagct gaaaacaact tatggacaaa 300

<212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15659

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 cactattgaa ggaactcatt gaagctcaaa gatccagcct ccatagaagc tccacaagca 180  
 agcttccatc acatcccttg tggatctttg cttgtaaagg attttacaag gttattggaa 240  
 atctaaagaa ccggtgggtg cttggggact ggatgtangc actgggttgt gccgaaccag 300  
 tataaaactg tgtttggctt cttcttcctt acactctata attctcgttg tgtactttta 360  
 attccgcttt acttaagtct aacgtattag ttatgttc 398

<210> 15660  
 <211> 326  
 <212> DNA  
 <213> Glycine max

<400> 15660

agcttttagtc ctgaccgggt ctgcacttgt aatgtgcgat gctcttgccc agtttccacc 60  
 attatcggac aaagaaagct tyaagaccga gctatgcaat ttctgagagg tctgaatgaa 120  
 cagtatacat acattcggtc tcatgtgtta cttatggate ctataccacc catatcaaag 180  
 atctttctcat acgtggcgca acaagaacgg caactgttat gtaactgttc tctaatctc 240  
 aattttgaat ctaaggaaat ctccattatt gctgcaaggc ccgttttgtg gtattatgga 300  
 cgaatcggtc accacaaaaa tgtgtg 326

<210> 15661

<211> 347  
 <212> DNA  
 <213> Glycine max  
 <400> 15661

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 tcccatgta cacaataaac atacattatc acaatgacgt ttccaatgtc aacaacatct 300  
 catcttaatt gtcttaccca catcaacatc atgtcatctc aatatca 347

<210> 15662  
 <211> 406  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 15662

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 atcattgggt ctccgtcatt gaagtgcac ttgagctgcc aggtctctcc acctttgggc 120  
 gtattctttg aaagatctgt gccccttttt gcacatgtta tgttggttga tctatccgg 180  
 aaccatatca aaattgtact gatactgcct aatgaaggca accattatgt ccttccaaga 240  
 gtggactcga gaaggttcga ggtagtgta ccaggtaaca gctaccccag taagattatc 300  
 ttggaaggaa tgtatcagca ggtctctc tcgttacgcat gcccgcatct tccgataata 360  
 catctttaga tggttctttg ggcaagtagt ccccttatac ttgaca 406

<210> 15663  
 <211> 353  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 15663

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 ttgtgttgta attctcggg caaacactaa ttgtgttttc aaatcattaa atctctcat 120



acattcttca ttgaacacaa aagcaacatc ttatttcaac aaattgctca acagtttggc 180  
 tactttggag aaatctttta tgaatgcct agtgaacctt gcatgtgcta agaaacttct 240  
 tattcccttg acattcangg gaggaggtag tatgtcaatt acattgtaca cctctttccc 300  
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<213> Glycine max

<400> 15664

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 gaaggaacct ttatatataag cttgctaacc catggaagct cctaatactg tccacactct 120  
 ctgggggggg ccattatttg atggccttga tttctcctg gtccacttgg accccatttc 180

<210> 15665

<211> 427

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15665

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 cggtyggtca gatgaagaat cacagagaaa ggaagaccaa aaagactaag gctaaaaatt 120  
 gctttttctc tactgtgtca aaaattattt ttacaagaat tatgaacttc aagtctgcca 180  
 aacagatttg gatttatctc agatcagaat atcaaggctg tgaaagaacc aaaggcatgc 240  
 aagtactcaa ctgngcaga gaattcgaga tgcagagcat gaaaaagact gaaacaatta 300  
 aaggetacgc tgaacggctg ttaagcatag caaatagagt gaggtctctt gggaaagact 360  
 ntccgatga aagaatagtg canaanatcc tggteactat acccgagaag tatgaatcga 420  
 agatatac 427

<210> 15666

<211> 277

<212> DNA

<213> Glycine max

<400> 15666

caaaagccat tcatgatttt tctaaacett tgatcaacat gatgaaagca gctgggtggg 60  
 accttgatgc tgetgccaac tcaatcgaac ctgatgttgt ttatgcaaag agagctcata 120  
 agaaatatgc atttgagctt tacatatgcc aaagaatgtt cagtggctct gagcaagaaa 180

<210> 15667  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15667

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 atatctggga agccatagaa atagggcctt atataccac cacagtagaa agagtttcaa 180  
 tagatggtag ttcatcaagt gaaagcataa ccatagaana acctagagat agatggctctg 240  
 aagaggatag aaaacgagta caatacaacc taaaagccaa aaacataata acatctgccc 300  
 tatgaatgga tgaatatctt agagtttcaa attgcaagag tgctaataaa atgtgggaca 360  
 ctctttgatt aacacat 377

<210> 15668  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15668

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 gagtcccgta atatctcgag acgtctgaaa tggaaacccg aatctctgag aaaattcaaa 120  
 cgacaataac tttttactct gatgtcagat tgagtcagaa aatttctcaa gatgttgaa 180  
 attgaagacc aaagctctga gggcaattcaa acgacaataa ctttttactc agatgtgtga 240  
 ctgagtcctg taatatatcg agacgtctgg aattgattat cgaagctctg acaaaattca 300  
 aacgacaata agttttactc agatgtctcg attgagtcct gtaatatatc gagacgttag 360

aaattgaata cagaagctct gagcaaattc aaacgat

397

<210> 15669

<211> 348

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acgatgcacc gccaaagtggg gcattatctg aatatctctt ctacacatct ccacatcacc 180  
atcgggtgaag agcttctctt ttgcaataga tntgcaggcg cactccagcc ctggtgcctt 240  
ttccacgcac aagaacgttg tcccgaaactg acctgtcca agttctctcc agagtaaaga 300  
actcttgaaa tctcggctct cctttgaaca cagaataaca cgaacctt 348

<210> 15670

<211> 397

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15670

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ctggggggcaa gttaaattttc ttccatcac accttggtat caattgtgat cgtataccca 180  
tctcagctag atcttgatgg gtattcaagc cctcttctgt cttgccttga atgttaatga 240  
gcgacccaat cacattgtca caaacatctt tctccacatg cataacatca atacaatgtc 300  
taacgtcaag atcacaccag tacagaagat caaagaaaat agacctcttc ttcatatgca 360  
actctgaact ttatctctct tttgggctta ccaatac 397

<210> 15671

<211> 321

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15671

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atctatcata ctctctctcca tattactgag tctttcataa aaatatattgga gaagaagttag 120

Udattitqua Paagiyaaia C 321

15672

401 402

01225 JMA

<13> Glycine max

<400> 15672

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ggtcctaagg agatggagga aagtgtttct acaagagatt gttgcaatgc ttccaagcct 120

ttagataaaag catcctcagc ctgctgggaa gactgttgca gattataaat tcccatcaac 180

ttgctgatctg ttaatggctc aagggtggctc ttgatgatct gaactccaaa agacgagaaa 24)

tgagtcaaca acaaaactata tacacaagtg aagttactag aaaatggaag tacttaattg 30)

ggaatcacct tgagaagttc ggatgaacgg aatccaccaa gccacataaa acatctttcc 360

acaggtgtct tccacatccc attatgtatg tgtaatacat ca 402

<020> 15673

411 413

<212> DNA

<13> Glycine max

<123>        unsure at all n locations

<400> 15673

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tttgtatttt ttatgggtga ttgttttttt acatggagtt ctacgaagca agacattgtg 120

acacttttta ctcttgaagc cgaatatata gctgcaactt ctgcacatu tcatgccatt 130

ttggttadga gaattgttga ggaacttcag ttgtttcaga aagaaatcac aaagatctat 240

attgataata gatctgcaca agagcttccc aagaatcccc ttcttcattga acgaagtaag 300

tatatatata caaggtagca ttccattaga gagtgcatta ccaaaaaaga agtagaattg 350  
 acccatgtga taactcatga tcaagttgag gatattttca ccattgctct cca 413

caatcatact tccactgttg ccacaggttt gggtaaattt ctgggtatgct gtgggaacca 60  
 attccaaatt taatttttga aactatctct ttgatcaaa ctgttaagca tccagaatct 120  
 ttgctatca aattacccat tgccttccct actgtattgt gtggcattat gttcagtcag 180  
 catcccaata tgttaaacta cactgactct gtgatgaaga gagaatctcc tctatccctg 240  
 cattacaaac tggttgaagg gacacatgct ccagacattg tctcgacatc tgtctcgaca 300  
 tcag 364

<210> 15675  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15675

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 taataactct atcgtctatg attttaattc acaaaagatt tcaatcttaa gagcaactta 180  
 atagaaatac actacactac ccaaatatac atgggtggat ctagctcgac agatatttat 240  
 caaaaataata ataatacatg tegtcttaat cttagattat tattgattat gttaggtctta 300  
 gcttctctta anttttttcc tatcatgcat gtntcctttg ttgggtggtg ttgggtggtg 360  
 attattatta trattattat tattatcata gattatg 397

<210> 15676  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 15676

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ggttadaaat cagatgaat aatcttggg tggcaatgat cgtgcaaata agcaagcccc 120

cttttttag ctatagggtt tttttttt ctatctttt tttttttt agatatttt

tgttggtttt gtggaggaaa ttataaaaaa gagagagag aagagagaca ataagtatgc 300

agaggaaaata gaattattct attctaaatt caattgttct caacaacgat acantaaata 400

tctaaagata actaat 436

<210> 15677  
<211> 449  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15677

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acattttgct tctgcactag accgagcaac agtgttttgt tttttgtctc tccaagagat 120

aatattacct caatggatac acaatatcca gtagtggacc ttctgtctat ggagcatcca 180

gtctttaact tgtctcata taacaatcct tgtcctggag ccttctcaat gttcctgaga 240

atgogaatca caactttctg gtgatcaaca tgaggagctt acatgaatng actaaccagt 300

cttctatata tttctggatc tgagtatgga tcaccttggg ctgccattaa cttttgattt 360

ggatctatag gaatattaac gggtaacag ttagtcatgt ctggttcttc ttaaatatca 420

agagcatact nntctttgaa gactatatg 449

<210> 15678  
<211> 390  
<212> DNA  
<213> Glycine max

<400> 15678

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ggaagggggg ttgaattaaa atatcacaat ctttccttat tcaaaagttc tattttgatt 120  
 ttaarccaaa aacccaagat ggctttcaaa atgacctcct aaataataat gcaaattaat 180  
 ctactgatt agaattatta agaattaaac attaaagaag ttttaaggga gaaagattgc 240  
 ...

<210> 15679  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15679

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 cccccagcat tcttggggagg aaccttatgt tgcagagtgt taaagaaatg ccaattgttg 180  
 ggggtagtgg gatcttcaaa tatgcaaggg gttcttctgt gcttaagaca catgtgcatg 240  
 atgctaaagc tgggtgttga attgtcgaat acaacgtgtc tgccttgcac gtttgagtga 300  
 aataggttga agtctctctt tataatatan gtttngtttg gaagggtgagt ttgaatcttt 360  
 ctcttctaatt cctctctaatt ttaagtccat tctgtctt 397

<210> 15630  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15630

taagcttatt ccgatatggg ctcaaaaagg cagcaggtat ctccagtttc tgagtaagtg 60  
 gtctccatgg ttgtttcacc aattcagttg gctgaacaaa atcctcctct ttttcatttc 120  
 caaaaaccac ttcttttggc catatagcat tgcctatagc atagggtccc ttgtttcaaa 180  
 gaggcaccct ttagatcaa aattctcagt ttggtctctc accagtgttg acttcgttga 240  
 ctccatcatg gacaatctcc tctccatctt agaatctcca cttaggtggag gaagtagaag 300

gggatgccca ttatctatag ccacttcate tagttctgtg ttctgatatg gctccttgea 360  
 teetngcat atcccacctn ctgttttact 390

<210> 15681

<211> 312

<212> DNA

<213> Glycine max

cattctctta azaaagtega acatgccata actcaatcgt gctttttctt caatgtcata 60  
 tjttagcaaag abcttgatcc tgccaagtta gatgagctag aaaatgagge taccaatada 120  
 ttgtgtgeca tggagatgta tttacctctt gagttctctg gcattgogge acacttaatt 180  
 gtccatctgg tgagggaat taaatgttat ggtcttgtat atttgtggag gatgtaccog 240  
 attgaacaat actagaagat cttacaatgg tgtacaaaaga atctacacog ttntgaagea 300  
 tctattgtgc gaaggtacat tgtacaataa actattgag 339

<210> 15682

<211> 312

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15682

ggaaaaatng gatatggcac tgttagcgaa gccttggcat acaagtgtcc ttttgtcttt 60  
 gtaogtagag actatntcaa tggaaaacct tttttgagaa atatgcttga ggtattctat 120  
 tgaatttctc catgttagtt ttttgtgtct tcaatatatt ttgggttatga gtgcctttca 180  
 agtaattatc ttattttttt agttttatca aggtgggtgtt gaaatgatta gaaaggattt 240  
 actgaacttg cactggagac cttatcttga acgtgcgata agnttgaacc ctgctatgaa 300  
 gcaagcatta at 312

<210> 15683

<211> 383

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15683



catgagggtg ggctcatggg ccactttggg atatacaaga cgctcgtctt actcaaagga 60  
aaagttttatt ggcctcatat gaagaaaaat gtccttaagc attgcactag gtgtgttagct 120  
tgtttacaag ccaagttctag ggtgacgctt catgggctat acacaccctt acccatccct 180

ctcgatgggtt cgcctggacc att 333

<210> 15634  
<211> 444  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15634

ctctctggta atcgattacc agtttattgt ttctgattcc agnggcaagn ttggttttca 60  
aaaagctttc aactgaattt acaacgttcc aatcaatttc aaaatgggtgt aatcgattac 120  
aatatattgg taatcgatta ctagtgtgtt tgaacgttga aattcaaatt caaatgtgaa 180  
gagtcacatc ctttcacaca aatgctttgt gtaatcgatt acaatgattt ggtaatcgat 240  
taccagtgat aagcttttgaa taaaaatcac aagatgtaac tcttccaatg gttntcatgt 300  
tattctaaaa gttataactc ttaatgggtt tcttgaccag acatgaagag tctatanaag 360  
caagacctta acttgcattt tatagacatt gaatacattg atttcaatcc ttacaaccc 420  
ttgagtctct ttgaacatct tctt 444

<210> 15685  
<211> 312  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15685

uctagagaga tccccgatct gagagggtac tgcctcgtct gcactcttct ttangtcaag 60  
atataccaaa tttagagatg tccccatctg aggaggaatc tccccatga ttccagtatg 120  
agaagaggtt gaggtgagtc aaggaagtca ttgtcccaag gaaagaagga attgacatag 180

cttctccaag gtattcaatg gcgctcaagt ccaagtaatt caaatgcttt atataagcca 240  
 aadaaggact tatctctcca ccagagctcc atctctata agcttcccaa tcatatga 300  
 aaatagaatc tg 312

<21> Glycine max

<223> unsure at all n locations

<400> 15636

ataaagaaa tgcactcta ctgcaagggt gaaatgtttg ttaactagga aacataagta 60  
 tatgcaccag gaaaacattg ttgttgaaag aaattgtagt gttgtgatto acaagatctt 120  
 tccacctaaag cataaagacc ctgngaggtt aactattctt tgttcaattg gagaagtcac 180  
 ttgttgaaaag gctcttattg atctgggagc caatattaac ttaatgccac tctccatgtg 240  
 tagaaagttg ggaaagtcag agatcatgcc cactaggatg actttacaac ttgctgactg 300  
 ctccattacc agaccatata gagtaattga agatgtgttg gtttgagtaa aacattttat 360  
 ctcccccgca gactttgttg taatggatat ctgtgaagat aatggcattc ctgtaatatt 420  
 gag 483

<210> 15687

<211> 242

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15687

ttctttngat attnggcaaa gttaaaaata atgtttttaa aattatacta atcattaaac 60  
 aaataaaaata caaagttatg atttaataat tacatagtaa gtaataaagt aataataatt 120  
 aaaaattcat aattaaatac tatnttttta ttcatacage ttatatttaa agaactttat 180  
 ctatvttaaa gtcattttaa acagaaattt aaaaagaaaa ggggggaaat aaagacagtg 240  
 ga 242

<210> 15688

<211> 328

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15688

agctgactt gatatacaac tgataaatct tacattggtt tgggttgaat agctagaaca 141  
ttctgattga tctagccttc aactggagca aagtatcaaa taatctactc ccaaacttga 300  
cctacccttt accactacat tgcttata 328

<210> 15689  
<211> 320  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15689

aaactatatt atctacacca aaggacact tctctatatt tgcataaagg gtgtttttcc 60  
taaagactga aagaacttgc ctgagatgic ctaagtgate atctangctc ctactgtaca 120  
ctaaaatata atcaaaataa acaactacaa atctacctat gaaatccctt aagacatgat 180  
gcataagcct cataaagggtg cttgggtgcat tagtgagccc aaaaggcctc actagccatt 240  
catacaaacc aaacttgggc ttgaaagcga ttntccactc atcaccctnt ttagtctctga 300  
tttgggtgata accactttta 320

<210> 15690  
<211> 450  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15690

tacaaatctg ttttaagtc aagcccataa ataattttaa ttctagataa gataagacaa 60  
aatctagatg aattaatata tagatgaaat aaaatctaga taaaataata tctagatgag 120  
ataaaatcta gatagataa gataaaatct aatgaaata atactagat aagataagat 180

ntggtagcat aaaattgtct gctctcttca agtccaagcc caattccgga ttcaaaccce 240  
 attgcttant aatttctga nattaaatta aaaacacaaa attaatccag taggcccacaa 300  
 tgataaaact gcataattaa ttgacaatt aaggctaate agtaattaaa atgggtgacaa 360

aaacccctaa caatctctct caatctctct caatctctct caatctctct caatctctct

<211> 371  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15691

agctttatct ttgcttaata taccactttt tagttgacta tttttcttat tagcttccca 60  
 ctattagtgc aaaaccattt tgcctatngn tcatgttttt ttgtctctgt ttgtgggttt 120  
 gaatttgaaa attgaacgtt tgtgcttaac tttttgaact atacgggtatg ttgttggttg 180  
 gatggcacta taccacatga atgcattntg gtttgcaacc tgggtgtgttt gcaaggggtt 240  
 gtgaagcgaa ttttaataata aataanatca aatgctttct ctctgggtct ttgtatatct 300  
 aattgaaaag tatancatat ctatagagta tcttcaatta tacttaaaaa attaatgatt 360  
 atattaaaaa a 371

<210> 15692  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15692

actggatgca ttggttaact gggttttctca ttggccttga atcaaaaaatt tgtaactgtc 60  
 gcaaggggnt tttgggttgt gctcctctgc tgaccaccat acagaccttt gccctttcat 120  
 tgcagaacct ggagcaatng agcagcctga agcttattgc tgcaatattt acaatagaac 180  
 ctcccaacca cagcagcaaa atcaacctata acaaagcaat tatgacctct ccagcaatag 240  
 atacaacctt ggatgagga atcaccctaa cctcagatgg tccagccttc acaacaaca 300  
 acagcagctt gctcctctct tcaaaatggt ttggcccaac agacatacat tctcaccaca 360

tcacaaacag cacaacccca gaacaaccaa cagttgaggc cctccacaa

409

<210> 15693

<211> 365

<212> DNA

<213> Glycine max

ttccatctctc ttacagacac tttctctcga catctctctc cttctctctctctc  
gigggtangg attagennac caaatgagca cccctgtgga aatcgggtctc caaacactaa 120  
tateatcgtg aaacccgtgg gatrattgca gccctatta ttgaaatcga ggacaaatct 180  
ttccatatgt gggaaggtat tggaaagagg tgcagcaaac cggcagccct tctttgttcg 240  
tattttgtct gtctgcacga aggacattgc acgatgtact ggccggacac tctttgtata 300  
tgttggcagt caaaattctg tegtatatga tggagagtct ttgatacccc tgtgtgattg 360  
tcgag 365

<210> 15694

<211> 446

<212> DNA

<213> Glycine max

<400> 15694

ggaatcggac ctcaagtgtc aaagttatga ccctctgata tttctcgaga gcttccgtgg 60  
ttcagtggcg agcatctcga catattatgt gcccgaaatct gactttcgtg tgaaaagtta 120  
tgaccatttg aatttctcga gagcttcga tgtttaattt cggagcatctc aatatattgt 180  
aagcctgaat cggagctcag tgtgaaaagt tatgaccatt tgtatttgtc gaatgcttcc 240  
ctgggtccaat tccgagcacc tcgacatatt atgtccccga atctgacctt cgtgtgaaaa 300  
gttatgacca ttgaatttc tcgagagctt ccgttgttca gtttcgagcc tctcgaaata 360  
ttatgcgccc gaatcggaca tccgtgtgaa aagttatgac catctgaatt tctcgagagc 420  
ttaaactggc taatttctag cgaactc 446

<210> 15695

<211> 426

<212> DNA

<213> Glycine max

<400> 15695

tggattaaac aacggaagct ctgagaaaat tcattttgtt ttaactttta attcggaggt 60

tgatttcagg cgtgtaatat atcgagagcg tggaaattga acaa'ggaag ctattgagca 120

atttcattt tttttttta ttattttttt aggttcgaaa ttgaacaacg gaaggtcttt

agagaatcaa atggttcataa ctttttcacac ggaggtcaga tttatgggca taatatatcg 300

agagctcaga tattcaacat tggagagctt cgtgaaatto aaatggctat accttttaac 400

acggag 406

<410> 15696

<411> 331

<412> DNA

<413> Glycine max

<400> 15696

ggaaaaacct atgtgectca ttgaagttag caccatctt ttataaaact gatgggagaa 60

tatcaatca acataaccca ctgacctt ttgcaccca tttttagggc ttgttttggc 120

accacagaga gcaacattct cccaagcccc ttggtcttat aacactccct caagaacaag 180

ttctccatgt aaaacctctg cttctctaga acgagagaga agttcggaga aaacaagaca 240

aaaccaacaa tggaaacacc tctgaaggtg tttaaattgt agtttctcga gataactatt 300

acttaatggg aaataatgat gaataattaa t 331

<410> 15697

<411> 215

<412> DNA

<413> Glycine max

<423> unsure at all n locations

<400> 15697

ccttgaatna aaaatctgtg cctatcgcaa gggtttgtgg ttagtgctcc tctgctgacc 60

accatacaga ccttggccct tccatgcagc aacctgttagc aattgagcag cctgaagctt 120

atgctgcaaa tatttacaat agacctcttc aacctcagca gcaaaatcag ccacagcaga 180

gagttatga cctttccagc aacatataca acct

215

<210> 15698

<211> 324

<212> DNA

Glycine max

attttttt tttttttt tttttttt tttttttt tttttttt tttttttt  
atttagatta ttattattat attttaaatt taagccttgt atttggctat ggtttatgac 120  
atttgaatac ttagtatttc tttcataatt acctagatg actgaacatg atgatttata 180  
ttacttgcct ttggtgttta tggttatgtg tggtaaacct tattatttta tgatatatat 240  
gtctagtgat atgtacttac atttgggtatt gtgtngatgt atgtcttata attattcatg 300  
tatgttttat tttacgcact atga 324

<210> 15699

<211> 285

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15699

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acgaactactg attcaactga tcatggtaga gagctagaaa tagttcatat gacactaaac 120  
gaaaagttgg ctgatacaaa atttctcttc gtttaggatg acgtgtggga acgaaaggcg 180  
gctttaatgg agaactgtgc tgaatgtccc ttgttatgga gctcagggaa gtacgatcct 240  
tgcacagaca cgcagtgaag aagtgggttc tatcatgcgg gcaga 285

<210> 15700

<211> 405

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15700

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cttcacccga cgaagacact gacaaaaact tatcttctcc ttcttgaca aagtatggca 120

ggctgggggc aagtaaattt tcttcccatc agaccttga tgcaactgtg atcgtatacc 180  
 catatcaget agatcttgaa gggatttcaa gccatccttc gtcttgcttc gaatgttaag 240  
 gagcgttcca atgacactat cacagacatn tttttccaca tgcataacat caatacaatg 300

<210> 15701  
 <211> 444  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15701

actcaagcct aatgttntat tgatgatcat caacatattc aaagtfttgt atacattggc 60  
 aagaagtggg gctccattgt tcactatgaa gttgataatt ggcctctatat atggctctac 120  
 atcgtatta aaaacggatg tactgtgtgg gtaggcgggt gcagcaatga aagcagagta 180  
 tattgctgtt gacaccttga gtcggccatg caaattggct aatgaaattg ctntttgaat 240  
 gttggtcata gcaggtagaa tgtattggac cgacctcatt ggtattgggg ccaatttcgt 300  
 ttccaacaac gatgtactta aaattgacgt ctcgtgagta ggggtgtcacg tacttattga 360  
 cccagtctct ggtgcatta gcgttngtca gagattgaag ggtatcctta gcaacgtcca 420  
 tgatcaactc aatgcctgaa cctc 444

<210> 15702  
 <211> 361  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15702

acgcattgctn garagagaag tattaggggc agagacattg tcttgtagt tgtaacggat 60  
 tggcatacca gttaaatgct ccaagatatt gtctctctct gaaccatctc taggagactc 120  
 ggycaacctt tgccttctctc ttgtgtatct aactccccca aagaccagac cacaatgac 180  
 aagcaagggt attatgacaa tgaccacaa acataggggt tgcctattgc cactccact 240  
 gttccataa cccgtgccag cactccaaac cgtcagagac ttgatgtaga gacataacca 300



gaatcacaat caggtttctg aaagcatcct acactgttca aaaggaaaca gtcccttgaa 360

c 361

11 11

<201> 15703

<210> 15703

tetgtttgat ggtaaaactag atgcttagtt aacctggtaa cccagctagc gttgaatcag 60

aaatctatac ctgtcgcaaa agtctatggt ttatgctcct ctgncgacca ccacacagat 120

ctttccctt ccctgcagca aactgaagca attgagcagc ttgaagctta tgetgcaaac 180

attacaaca gacctcctca aactcagcag caaaatcaac cacagcagaa caattatgac 240

ctctccagca acagatacaa tcccggtatg aggaatcaac ctaatctcag atggtctagc 300

cctcaacaac aacaacagca gctgctcct ttctttcaaa atga 344

<210> 15704

<211> 292

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15704

tttttgtctt tcttattcat tcaatatcga gcgttgcgat atattatgga ctgaatcana 60

caaccgagta aaaagttatt gtagtttgaa gttgctcaga gcttcaactt tcaatatcga 120

gcgtttcgat atgttacggg actgaatcag acatcanaat aaaaagttat tgtcgtttga 180

attatctcag agcttcagta ttccrattcg agcgtctcga tatattacgg gactcaatca 240

gacatccgag taaaaagtta ttgtcgtttg aatttgcctc aagcttcaac at 292

<210> 15705

<211> 414

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15705

ttgagtcctt aaacaacaat aactgtttac tegtgtgtt gattgacacc tgtaatatat 60  
 ccagacgctc gaaattgaat accgaagctc tgagcaaatt caaacgacaa taagtttcta 120  
 ctccgatggt ccattgactc tegttaatata tcgaaacgct cgaaattgaa gacccaagtt 180  
 ... ..

ttcagagcac atcaaatgac ataactntta ctccatgcca agcagagctg aata 414

<210> 15706  
 <211> 106  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15706

agcttttggtt gcacttttca atggagngga caggaagatc ttcgaactga tcaaacacttg 60  
 cacagtggcc aaagaagatt ggaagatcct gaaaatcact catgaa 106

<210> 15707  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15707

gcttaacatt caattntgag cgtctcgata tatgactaga ctttatctta catccgagta 60  
 aaaagtatt ttctgtgtaa ttggctcaga ggttcaacat tcaatttcga ggcctctcgt 120  
 atattacggg actcaatcta acatccgagt aaaaagttat tgcctgttga attggctcag 180  
 ggcctcaaca tccaatttga ggcctctgat atatgacgag actcaatcag acatccgagt 240  
 aanaagttat tgcctgttga attgtctcaa aggttaaaca tccaatttcg agcgtctcga 300  
 tatgttacgg gactcaatca gacatccgag taaaaagcta ttgctgttgg aatttgccta 360  
 gagattcaac attcaatttc gaacgtctcg atatattatg ggactcaatc 410

<210> 15708  
 <211> 394  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15708

atgggtagtg cagatgacat accaaaactgc aattttgcac atgaatcata gataagatta 60

atgagatg atgagatg atgagatg atgagatg atgagatg atgagatg 120

atadintaag tatatataga tattgttgaa gtattactac taaaaaatatg atatttagta 300

atattttttt atcaacacta aataaaaatg ttactaaaag cctttgacga catttaattt 360

tattacaaaa tgatgaataa atgttattaa tata 394

<210> 15709

<211> 355

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15709

agctttctca tacatacgaa gattttgtga gtntacaaac catgttgtea ttcttgacaa 60

gataaccaag aggcattgcc atgtatactc cctcaatcaa atcactattg agaaacacat 120

tattttaaate aagctgaaac atgttccaat ttctgtgagg tgcaatggaa agaaacactc 180

tcattgccgt atgcttggca acaagtgaga aagtgtccaa aaaatcgatc tctgcttgtt 240

gtttgatgtg tgtacccttt tgcaacaaga cgagccttgt atctatcaag ggagccatct 300

gctctatact tgaccttata aatccatctg caactgatgg gtcttttata ggggtg 355

<210> 15710

<211> 413

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15710

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ctcaaaaaaa cctctgagat ctgaagttaa tattcaaatg atcaaaagtg agaaaatagc 120

acacacatga cctctattta tagcctaagt gtcacacaaa atgggagggg aattcaaat 180

tcaacttgaat ttgtggagcc aaactttgga gccaaaaatt aactaattat gattcgtgaa 240  
 tgttagttat gggtcagccc actaatccaa gatcaattcc aagattctcc actaagtgtg 300  
 attaggtgtc atgaggcatg anaagcatga aggaratgca cagagtgtga ctatatgag 360

<212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15711

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 caaactcctt atcataagtt gaatagttaa aggttaagacc acttaacttt tcaactaaaat 120  
 aagcaattgg atgaccttct tgcatacaaa cagccccaat cccaacattt gaagcancac 180  
 actcaattta aaaagatttt tgaaagtttg gcaatgcaag tatgggggga ttagttagct 240  
 ttgtcttaag aacattgaaa tcttctctct gttctctctc ccattagaaa ccaacatttt 300  
 tctagcaatt cattgagagg tgctgccaat gtgctaaaat ccttcacaaa tctctataa 360  
 aatcttgcta aaccatgaaa actctcacc tcggtcac 398

<210> 15712  
 <211> 434  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15712

agncttgttt ttgactcacc ttctctttga agtggcgctc ccaatcattc ctcttcctta 60  
 tccaatacac tgcattgat ctccaagaag aaaatgactc cattgatgaa gaagatccaa 120  
 ggctacaaag ctccacatgg agctacgtca tgttggtatta agagcatctt cgtctaggtg 180  
 atgttctttt gcttctctca tctttttccc cggccaatto actctaatte ctattctctc 240  
 atcttattct ccatgatat ctccaatttt cctgtgggtt ggtactatth agagtagatt 300  
 cacaanaanat aaactcatta aatcttagat ctacaattgt tcttgcaatt ctattggttc 360  
 aaatttatag acctattctt gaatcagnt ttgtgttga tttaagtctc taccatntc 420

agtcataatc tttt

434

<210> 15713

<211> 423

<212> DNA

ggatgctata aaacccacac ttttcccttc ttttcccttc tgggggaggt atctctattt  
ttcttaaagt tttgggtcgt cttcttttgtg ggaaagataa ggaagtatgg gaaagtcagc 120  
tacaataact tgaataacatg ccaataacag atatttacca tgcattgaga ttgagttttg 180  
atgatctaga tcgcaaagaa cagaagatct ttttagatct tgcattgttc ttcataagat 240  
tgaatttgaa actggacagc ataaaagttt tattgaaaga caatgaaaga gatgattcag 300  
tgggtgtgtg gttagaaagc ttgaaagata aagctcttgt aaccattctt gaagataatg 360  
ctatatctat gcacgatatc atacaagaaa tggcttggga gattgtgtgc caagaatcaa 420  
ttg 423

<210> 15714

<211> 388

<212> DNA

<213> Glycine max

<400> 15714

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gttggatcaa atggagaata gagatcataa tgaagaagaa agggaggagaa gagggaatga 120  
tgggtgttct agacaaaaac gaattgatgg tattaaactc aacattctct catttaaagg 180  
aaagaatgat cgggaggcct acttggagtg ggagatgaaa atagagcatg tttctctatg 240  
ccacaactat gaggaggacc agaaggtgaa gcttgcgcgc acggagtttt ccgactatgc 300  
tcttatgttg tggaaacaagc taaaaagga gagagcaaga aatgaagagc caatggttga 360  
tccatggagc gagatgaaaa agatcatg 388

<210> 15715

<211> 427

<212> DNA

<213> Glycine max

<223> unsure at all n locations  
<400> 15715

acatgagttt ggggtactt cttcactcc tataatgact atagcatcat ttctggcgct 60

agttatata aattctctcc agtattcaca taccctctc ccactgagtt tcttatttc 75  
taagatatcc ttcttgatgg cagtgggtct ggaagctgga aaattttttt ctaagaatac 360  
ttctcttgagg tcatcccaac tcttgatgga ccttggagcg aggtaatata gccagtcctt 420  
tctcact 427

<210> 15716  
<211> 353  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15716

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ggtcattgtac ctccaccttt ataaggctac acgccgtcac ctccaaaaga ctacacgtcc 120  
tcaccttttag aggactacac gtctctgcca tcagaagact acatgtcccc cattttcaaa 180  
agaggacatg ccttcacctt tagaggattg catgtctctg tcatcatang actacactcc 240  
ctcgccttca aaaggcgaca cgtcttgaac ttcaaaaggc tacacgcctt cgcctttaga 300  
gggctaagcg tntcacttt cagtgggctc catatccaca ccttaagata att 353

<210> 15717  
<211> 433  
<212> DNA  
<213> Glycine max

<400> 15717

tcttatccaa ggtcatctt ggtggigaag ctctctcttc tatggcttat tccctagtgg 60  
atggcgcttc ctctcactc tctctcttg tctctcgctg catttccatg gctgaaaatc 120  
atcattaaag gaactcattg aagctcaaaag atccagcttc catagaagcc ccacaagcaa 180

gcttccatca ctgctgttgt tgggtgctgac ggtgggacca totgaggtta gggcgattct 240  
 tgtatccagg gttgtatctg ttgctggaga ggtcataatt gttctgctgt ggttgattct 300  
 gttctgagg ttgaggagga ctattgaaa tatctgcagc ataagcttca agctgctcaa 360

<210> 15718  
 <211> 363  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15718

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 tctagccttt gctgacact ccttgacctc acgcaggtae acccaaatgg cctctctac 120  
 aaaaggatta gtctctggcg atccttcctg cctctcataa gcagcgcgaa gcgggcctat 180  
 gagggcatcg aggetacccc atgcttgctt gagagggcag gcacacggtg caagaggggt 240  
 gggctggcca aagaagatgc aacctgcaa gtggagcttg gtttccata ttgatcgagg 300  
 accgaacgaa atccaacaca tggttgaagt tgcactgaga gagtggaaet ggcggaactct 360  
 gat 363

<210> 15719  
 <211> 434  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15719

tgcattccag cctatatctt ctaagcaaca ctctcactct ggggagactc caaaaagatg 60  
 cggttttggg cccactcaa gtcaagcttc tccaccaagg tctcacaat aacctctctc 120  
 tctctctgca aagogaagca tatccccaat gcggaaacgg caatcgttga cggcatacga 180  
 ctggggctgc tcccgagctt ggtcacctac aacacccata negatgggta ctgctgttct 240  
 gccaccttg atgtcgctta ctccgttctc gggogaatcc acgacgcccg catccccc 300  
 gacgttgatt catcaatac cctaattctc gggcgctgca gaaagctctt gttctgaag 360

tccctcgacc tgttcgacga aatgctcaaa cgaggcatca accccgacgc atggagccac 420  
 aacattctaa tgaa 434

agcttttcta ttattcaaga agtgccttat gaatactccc gtgcttatgc caccagtacc 60  
 tgggaaggcct ctcattttgt acatgacaat cttggacgag tcaatgggggt gtatgttggg 120  
 gaaacatgac gaatccggaa agaaagagcg cgtgttttac taactgagta agaagttcac 180  
 gaactgtgaa atgaattact cgttgcctga aagaacgtgt tgagcttttag tatgggcata 240  
 ccacgccta aggcagtaca tgetgagcca taactacctgg ttgatatcca agatggaccc 300  
 ggctaagtac atctttgaga atccatctct cactggacga atgcctcggc ggcaagtcc 360  
 gctatccgaa tttgatatag tgcagtcac aca 393

<210> 15721  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15721

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 ctatgacata agcttcaacc aattaacatt gtttgtatga caactgttgt agttggacag 120  
 caatcacaca gtttgtccac catggaatgc tntatgttcc tatttggttat agtttttgta 180  
 tgccttatgt tectatttgt tatagctttg gtgctggaat gttcaatttg gagtccacat 240  
 aaggaggaac tctatatgtt gctggagttt ttgctggaga tggtaaaaga caagcaagtg 300  
 aaatggagct ggagctcgca gagtatcatg gcaagtatat atgaaattag cccatanaag 360  
 ctaggctgga ttctgtgatt aatnatecat taagccctcc tagctaggtt agcattctag 420  
 no 422

<210> 15722



<211> 410  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15722

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 agccttctag ttccaccca taaaagtaga attattgtgg gcattgtacac tgcagaacca 240  
 caaaatttaa gatttaattt aatttataaa tgaaatttgg tcagatttga ttatttctcg 300  
 atcaaagtaa ttctcaatca agttacccct gtttntaaat gattccgaat gctggtaaag 360  
 tctctctata gcattgtaca tatttataca gtcaaagcct ttctctatto 410

<210> 15723  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15723

gcattgtac tntaagttag agagaagata taaattattt gtaataataa ttaatattac 60  
 gagtaaataa catatacaaa gatgattaat ttttacataa tcaatcacat attatcatat 120  
 aatgtaaatt gattgatagt aataataaaa atataaaaatt catattaatt atgatttaag 180  
 ttctaaacat tatagatgat atgataaaaa aaatgtgtat aaaaatgaga aattaagcaa 240  
 taatgagaga aaataaaaatt gaataatgaa agagagaaag agtgtgaccg tcacagcttc 300  
 caatagattg gtgttgtcgt gcaagtactt gaggaccat gttagaacac ttgctgtggt 360  
 gtcattgtga gcaaagatga caccaatgag attatcaaca acctgagaat ctgtgtgctg 420  
 ctgatagtag atc 433

<210> 15724  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15724



acaaagggaag ctctcgtgag attcanatgg tcataactct tcacatggat gtgcgattca 300  
 ggcgataat atgtcgagag gctcgaaatt gaacaac 337

<210> 15727

<211> 376

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 tggagcgtct cgacatatta tgggcgcgaa tgggacatcc gtgtgaaaag tcatgatcat 120  
 tggatntct cgagagtttc cgatgtttaa tttcgagcgt atcgatatat tataagcttg 180  
 aatcggacat cctgtgtgaaa agttatgacc atttgaatgt ctcaagagct tccgttgctc 240  
 aatttcgagc ctctcgacat attatgcgac cgaatcggac atcctgtgtga aaagttatga 300  
 tcatrtgaat ttcctcgagag tttcogatgt ttaatttcga gcgtatcgat atattataac 360  
 cctgaatcgt accctcgtgt gacaagttat gacca 395

<210> 15728

<211> 376

<212> DNA

<213> Glycine max

<400> 15728

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 cataaaaaag gtgtgagacc atgagagctc taaaataata tctgaatata cttacacgta 120  
 cattatatat attagttctt ttttcattgt catacatttt atattatatt atacacgggg 180  
 tttaaacttt atgctaaatc aacttctatt attaatctta caaatccata aaattggcag 240  
 aaaagctacg tcatctagtt aacgaagttt tttatgcttc aaggaatttg aaattcacta 300  
 tatagacagg cctgatcaat tgtcattagt tattttaatgt cactgaaaca aattaattaa 360  
 ttaaaccaaaa cgaatg 376

<210> 15729

<211> 411

<212> DNA

<213> Glycine max

<223>        unsure at all n locations  
<430>        15729

ajccatctctt ttatatgaaa caccscsaaa aattctcaaa tgtgaaagtt ttacctctctt    60

tttggtgtt ccttgtaatt accttaataa tctgattcca tggctcgaac aaaagtcctt    330

aaatcctga ctatcatact cctctgcatt gtcagatttt agactnttaa ccttttagacc    360

tgtttgattt tcaactcttg ttgtccactt ttaaacadag aaaacacatc a            411

<210>        15730

<211>        325

<212>        DNA

<213>        Glycine max

<400>        15730

ctcgatatad tataggcctg aattggacat ccgtgtgaca agttatgacc atttgaattg    60

atgcagagct tgcgtcgttc aattttgagc atctcgacat atgacagcc tgactcggac    120

cttagtgcca aaggtatgac catctgaatc actcaacaac ttgcgatgtt gattctcgag    180

cgtctctata tgagaatcgc ctgaatcaga ggtgcgagct aaaagtcatg accatttaaa    240

ttgtccaaga gcttccggtg tcaatctcaa gccgatcggt gtgcgacgcg catgaatcgg    300

agatccgtgt gaatagatat gacca    325

<210>        15731

<211>        280

<212>        DNA

<213>        Glycine max

<400>        15731

gaatcggaca tccgagtga aagtgattat ccttttgaat ttctcgagag ctctctagt    60

taattatgag cgtctcgata tattatacgc ctgaatcgaa cctcagtgta aaaagtatga    120

ccatttgaat tcttttagaca taagaigtea ttttgagcgt tctatatgtg atgacattat    180

cagacctcct gtgaaagat gacattgaat tctcgagagc ttcgttgtea attcagcgc    240



ctaaaagctt ttcaccctta tcgacgattg aaaaaagctt ttaatggaag tcaggggaat 60  
 gaangcccc cagaaccatt aactggaaac caagtccatg atcgcgtaaa ggacattgta 120  
 accgtgtttg ggaagtccca gaagaagaca tcctctccca acaacatgtg gaagaaacuc 180

<210> 15735  
 <211> 303  
 <212> DNA  
 <213> Glycine max

<400> 15735  
 ggcctggetat tatagaaaga tcattgtatg attttctaaa ttggcattgc ccttaactaa 60  
 gttgactcgt aagaatgaga agtctttctg gaatgagaag cgtgatcaaa gtttccaaga 120  
 gttgaagagg cgtttgacga cagctccagt gttaattttg cccgacctt atagaacatt 180  
 cgaagtgtat tgctatgcaa gcgggcaaag cttgcggtgt gtgttgatgc aagatggaag 240  
 agtaactggct tatgcttctc gtcaattacg tctcatgaa tttaactatc cgactcatga 300  
 ctt 303

<210> 15736  
 <211> 329  
 <212> DNA  
 <213> Glycine max

<400> 15736  
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 ggcaaccacg ccaggatcga cagcattccc gtgcagatgg gcacggccac ggccggcagc 120  
 acgcctcttg agggccggct gcagctgacg gacaaaccagg tcgatgcctg aagcggcacg 180  
 gtgcgctgtc ggcgcgtctt cgaacaacag gatggcgccc tcctgcccgg ccagttcgcc 240  
 cgcacccgca tgggcacagg gcgcgacagc agcatgctgc ttgtcagcga gcgcgcctc 300  
 tgcacggacc aaagcaayaa gtacgtgat 329

<210> 15737  
 <211> 394

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15737

agaacaaat ggattataat ttataaggat gtgtactaa gaattgttaa caataattt 240  
aacattcttg attctattta caatgttact tttccctact tgcataacaa tgtgtgacta 300  
aatgatactc agaagtcttt cccttgtaag actatatctt tagaatggaa ttataaacac 360  
taaccataat ataggtaag ttacaacttg aaca 394

<210> 15738  
<211> 363  
<212> DNA  
<213> Glycine max

<400> 15738

agcttatatt tattatactt acgtcatagg attaacagaa tagcttatat cacattataa 60  
aaaaaaggat gacacactga tgataattta aaaagtttta caccagcacc taatcccaac 120  
ccatcttgta tgttaagata gttgattctt atgctaatta ctttataagt tatatcaaca 180  
atgatgatat aatttaataa cggtataaaa ctattttata tatgaggacc aactcattac 240  
attaacaata aaattacca gagaatcatg tottattcta atacgaatat tttataattg 300  
attattagaa taaacaaaga tttctctttt ctcttgctta ctaattgaat gtatcctttt 360  
att 363

<210> 15739  
<211> 427  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15739

ataactttgt actcddatgt cttaattagt tccgtagat atcgagacgc tgaattga 60  
aacagaagct ctgagcatat tcaaacyaca ttaactnnnt tctggaggt acgatttgt 120

cccttagtat atctagacgc tcgcaattga aaacggaagc tcgtagcaaa ttcaaacgac 180  
 aatacacttt aactcagatg tctgactgag tectgtagta tatcgagacg ctcgatattg 240  
 aaacataagg tcgtagcaaa ttcaaacgac tataacttt taacggagc tctgattgag 300

<210> 15740  
 <211> 461  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 15740

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 gttccaactg acacagtaac caagattgca tttttttacc cctttcttcc ttctccagca 120  
 tcataaaaca tcacaacaca aacctcaaat gcttactacc accaccactt tttcttgctt 180  
 cctcttcacc ttcttcatca ccacttccac catggcttct atgggtggag ctgtgggggt 240  
 gaactggggc accatggctt ctcaccact tccaccccac aagggtggtga agctcttgaa 300  
 gtccaacagc atcaacaaag tcaagctctt tgatgccaac tctgatgttc ttcaggccct 360  
 ttctggctcc aacattgcta gtactgtggg tgttcccaac actttgctca gaagcttgaa 420  
 ctcttctaag aaagctgctg atagctgggt ccattgataat g 461

<210> 15741  
 <211> 382  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 15741

agctctcttcc tatatacaag actgaagctc tgataccact tcttagagaa gtggcctcag 60  
 atatcttaag aaggcggggc gcaatgaag atatgaccaa ctatttacc taatcaaaaa 120  
 tatatattac tgcacaacca acgtagaat tcccttaatg acaatcttct taaatattaa 180  
 ttcaatgag acactttgaa tatgaatata atccactcat agataaaggga gaataacgga 240



agagaatatg ogcaactcagt tctatactgt ttccggccaca cccgtgtgccc tacgtacagt 320  
 ccccaactaaa cccgctagag agttccacta tcttagaaat gctttgtaca agttctaaac 340  
 aaacaaagac aatccttctt tt 362

<13> Glycine max

<400> 15742

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 tctctagaga tcatgtgtta aaaggtgact gctacattga gtctcatagat agtgagcatt 180  
 aaattgcaga cactttcact aaaccatttg cttagagatag gttctgtttc attagaaatg 240  
 aaataagcat attagatgct tccaacataa aataacttcc tatttgcata atgtgtgatg 300  
 cacattgcta tttagagcga tgactaattt attctggagt ctctactcta atcaattacc 360  
 aagtagttta atcgattact tctctct 387

<210> 15743

<211> 164

<212> DNA

<213> Glycine max

<400> 15743

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 gaaacctctg aatatcaaag agttgagtct aaacttcaag agagaaaact gtgtatcaag 120  
 agaattaggag tgcctatggca gaaatttgaa acagcaggtc actg 164

<210> 15744

<211> 333

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15744

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gttggcttgt ttagcatagc ttttattttt cctctcaatt tgatctttga ctcttacatg 120  
aagcttcttc acatagtcgc cctttgcttg acctcttcta tgcctaaaaa agaaaacatt 130  
angcataggc aaaagatcaa gaggagttag tgggttagaa ctataaacia ctccaaaatc 240

<210> 15745  
<211> 150  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15745

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agctctcgag aaattcaaat ggtcataact tatcacacgg aagtcgatt caggagcata 120  
atatatcgag aagcttgaaa ttgaacaaca gaagctctcg agaaattcan atggtcataa 180  
cttgcacaca 189

<210> 15746  
<211> 275  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15746

taagaacccc atcgtcttct tcgatgtcac catcggtaac attcccgcgc gtcgaatcaa 60  
gatggaactc tntgccgata ttgccccaaa aaccgcgcgag aatttcaggt atctatgctt 120  
ctagtgttaa agcgtttctt ctttttagtgc tagtttagagt gccctttggc tttaagcatt 180  
gctatcaact tgtgattgaa cttctacgaa aaatcactan ttnttgtttt agtctacaga 240  
agtttactca ttttaattgc aaaagtgcag atttta 275

<210> 15747  
<211> 350  
<212> DNA  
<213> Glycine max

<400> 15747

agatgtatca cacaatcaaa taaaggggct actcccagat tgttggagac cctaaaaaac 60  
 ttatttggtc ttgatttaag cagcaataaa ttgtcaagga agatttctat gtcctatgggc 120  
 ggccttggtt atatggaagc cttggttttt aaaaacaatg gtttaatggg tgagttgctt 180  
 tttttttt tttttttt tttttttt tttttttt tttttttt tttttttt

<210> 15748  
 <211> 251  
 <212> DNA  
 <213> Glycine max

<400> 15748  
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 tgcgtttcca tgcagcaagc tagagcaatt gatcggcctg aagcttatgc tgcagatata 120  
 taagatagac ctcttcacct gggagcaaat aaaccacagc atgacaatta tgacctctgc 180  
 agcggcagat ataacctgg atggaagaga tagcctaacc ttacatgggt cctccctcaa 240  
 caacaacaac a 251

<210> 15749  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15749

ccaaagcaca gcttcaaatt tgggcacctt agatgtatca cacaatcaaa taaaggggca 60  
 actcccagat tgttggaaat cagtaaaagca attactgttt cttgatttaa gcagcaataa 120  
 attgtcaggg aagatttcta tgtccatggg cgccttctgt aatatggaag ccttgggttt 180  
 aagaaacaat ggtttaatgg gtgagttgac ttcttctttg aagaatgcag cagtttatct 240  
 atgctggacc tgagtgaaaa tatgttgttc ggtccaatac catcatggat tggacacagt 300  
 atgcagcaat tgataatctt gaacatgcga ggaaatcacc tctcangata tctaccattt 360  
 catctcttgt atct 374

<210> 15750  
 <211> 361  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

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 attctgaaat ctgatgggtg gggcaactgg cacataatt cttaaattct tccagttact 240  
 catataggct ctctccactg agttgtctaa taactgagat atccttcctg atggtttgtg 300  
 tccctgaagc aagaaatttt tttcttaaga atactctctt aaggtcattc caactcgtga 360  
 361

<210> 15751  
 <211> 267  
 <212> DNA  
 <213> Glycine max

<400> 15751

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 agagggaatg atcgtgttcc tatacaaaac cgaattgatg gtattaaact caacattcct 120  
 ccatttatag gaaagaatga tccggaggcc tacttggagt gtgagatgaa aatagagcat 180  
 gtcttctcat gcaacaacta tgatgaggac cacaatgtga agcttgccgc caggagatt 240  
 tccactata ctcttgtgtg gggaaca 267

<210> 15752  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 15752

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 gaggaagat gatggagat gccacttcaa ggagaagada gtcaagaaca agttcaccac 120  
 cataggaagc catggataag agcttgaagg ttgagaaga tgagtggagg gagagggaga 180

gaatggggcac gaaatttatg cctcgaatga ggtctaaaat ttgaagtgtg atttctcna 240  
 tgatcaaagt agaaataatg cacacaacag gcctctattt atagcctaag tgtcacatga 300  
 aattggaggg aaatttgaat ttatttcaaa ttccacttga atttcaattt gtgcagctaa 360

<210> 15753  
 <212> DNA  
 <213> Glycine max  
 <400> 15753

ajattggacca ttccaagtgc ttgaaaagt tatgacaatt ttacaaaagt aagctaccg 60  
 gtgagtataa tgttagttcc acctttcatg tctctaaatt atcttttttt gatgcagatg 120  
 gagaatccga ttggggacca atcctttctc agagggagag aatgatgaag aaatgacaa 180  
 gagcaagggc aaggatccac ttgaaagact tggacgaact atgacaaggg tttagagcaag 240  
 gaaagccaag gaagctcttc aacaagtgtt ggcatacta tttgaata 300

<210> 15754  
 <211> 392  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 15754

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 gttgttggag gatcttttga gagcgttgtt tttagagcaa aagggaagtt gggagagttt 120  
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 ctatgaagct ctgtatggta gaaggtgtag gacacctgtc atacctaat ttcgttcggg 240  
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<210> 15755  
 <211> 397  
 <212> DNA

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<423>      unsure at all n locations
<420>      15755
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..tcttggctctg tttattctctct ttcccaacaa atgatcaatg agccagcgca tagcacaatg 60

1. The first part of the paper is devoted to the study of the asymptotic behavior of the solutions of the system (1) as  $t \rightarrow \infty$ . It is shown that the solutions of the system (1) are bounded and tend to zero as  $t \rightarrow \infty$  if the matrix  $A$  is stable. The second part of the paper is devoted to the study of the asymptotic behavior of the solutions of the system (1) as  $t \rightarrow \infty$  if the matrix  $A$  is not stable. It is shown that the solutions of the system (1) are unbounded and tend to infinity as  $t \rightarrow \infty$  if the matrix  $A$  is not stable.

caaaatgaagt tgagtccttgt tcgattgtgg aatacacccg gcttactctg gcatgycctgc 300

ttttgacctat ttgcacgaga ttgacctctc catagtcacat gttctttctca tcaactcactt 360

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>210>      15756
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>212>      DNA
>213>      Glycine max

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<223>      unsure at all n locations
<400>      15756
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agtctaagga agctaaagag tctaagggga agcaagcaac aaatgttggtt cttatgccat 240

cattttggaa tgatgttgtc tacatttttaa aggctatang gcctcttgta agtgtgttga 300

gggtgggtgga ataatgaaaa aacctgcaat gggtttcatt tatgaagcaa tggga 354

SL108	15757
SL118	388
SL128	DNA
SL138	Glycine max

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4223:      unsure at all n locations
4400:      15757

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auettedu attuttedgg actucgngau caagcacetc tactetecy ceatctctt 60

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 ca 362

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 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
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 cataattaca tctgccttgn gaattgagga atattttang gtttcaaat gttaagagtc 360  
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t

421

&lt;210&gt; 15760

&lt;211&gt; 297

&lt;212&gt; DNA

&lt;213&gt; Glycine max

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 cgggaagctct ccagaaattc aatgggtcat aactatgaac toggaggtcg gaactgagact 240  
 ctatattatc ttgagcgtc gaaattgaac aatggatgct cttgagcaca tccaat 297

&lt;410&gt; 15761

&lt;411&gt; 302

&lt;412&gt; DNA

&lt;413&gt; Glycine max

&lt;400&gt; 15761

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&lt;210&gt; 15762

&lt;211&gt; 312

&lt;212&gt; DNA

&lt;213&gt; Glycine max

&lt;400&gt; 15762

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 <211> 421  
 <212> DNA  
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<233> unsure at all n locations  
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 aaaaggactcc attgatgaag aagatccaag gctaccagc tcaacatgga gctacatcat 180  
 gtgggtatcag agcatcttca tctaggtgat gatcttttgc tctctctatc tntntgcttg 240  
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 <211> 417  
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<400> 15765

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<223> unsure at all n locations  
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<223> unsure at all n locations  
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 ctctcaagg gaaagggga gatggaaac tccctaggaa gggaccaato actagaagaa 240  
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 . . . . .  
 . . . . .

<310> 15768  
 <311> 423  
 <312> DNA  
 <313> Glycine max

<323> unsure at all n locations  
 <400> 15768

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 atcaccagcc tacaataaaa caacagtttc acatgacaca caaacatctt tcatttcgac 180  
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<210> 15769  
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 <212> DNA  
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<223> unsure at all n locations  
 <400> 15769

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gaaatcagta aaagtgttta tcagaaatca gtcagttntg atgggttcata ggaggtctca 300  
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<210> Glycine max

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<400> 15770

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tatcttttggc aaatttactt acacttgatg gatttttagt gatggagggg gcattgtaaca 180  
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gaaccaagctg atgaatattt tgtgggttctc cagtcacatg gaatgaagct ccgagtcacn 360  
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<400> 15771

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<210> 15772



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 ggaagaggag tatcatttaa taaagttcta gcaatctctt ccaaagatct atttttcttt 300  
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 <213> Glycine max

<223> unsure at all n locations  
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 ttcaatcaaa ggactgagat aaacatcata gacaacatca attattttta cttcatgcac 300  
 taccgaaggag gtaagttgta aattactagc anaacaagtc acaaactatg ctgagttctt 360  
 ananngtcat agggattcat tccatcact 389

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<223> unsure at all n locations  
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 aagagctctg aaattgcaca aaggaagctc ttcagaaaat caaattgtca taactcttca 240  
 aatggaagtc agattaaagt acataatata ttcagaagct tgaattgaa caacgtaagc 300

tctcaagata ttcaaattggt cataactggt cacaacggag tccgattctg acgcataata 360  
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<210> 15777

<211> 111

<212> 111

<213> 111

<214> 111

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<210> 15778

<211> 416

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15778

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 tctcgagagc ttccgttatg caatttcaag ctctcggatc tattatgcac ccgaatcaga 300  
 ctcccatctg aaaagttatg accatgtgaa tctctcgaga gctttcgtcg ttcaattttg 360  
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<210> 15779

<211> 435

<212> DNA

<213> Glycine max

<223> unsure at all n locations  
<400> 15779

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gagaaagaca ttgttcacat ccagctggtg tatggggccag tgataggtga cagccaaagt 120

gagagactga attggagttt attctctctg tangagagga anacaactag gaagtctatt 420

atttaaatag acaact 435

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<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
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ataaaccata gagtctggcg acaggtgcaa atttttgatt catggccagt tgggttacca 120

ggtaaccaa ggcactatt ttacctcaa gcttcttagt ctgggtgat gaagatgaat 180

tcttggtac ttcattgaat cctctaata caatagcacc acttctggcc gtggctctgg 240

aagcaaggaa atttttttct aagaatactc tcttgaggtc atcccaactc gtgatagacc 300

gtggagcaag gtaataaagc cagtctcttg ccactccctc taaagaatga ggaaaagcct 360

ttagaatat gtgatccctc tgcacatcta ggggtttcat ggtggagcag acaatatgga 420

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<210> 15781  
<211> 451  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15781

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[illegible]

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<210>          15733
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<212>          DNA
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<400>          15733

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atatccagaa aadggacaac aatcttcttg gcautgtatt taugggataa cacaccaaau 180

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 gtaagccgat gatgaagtcg acgctgaggt ctcccatat tgacgacaaa atgggaagag 300  
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<210> 15784  
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 <212> DNA  
 <213> Glycine max

<400> 15784

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<210> 15785  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<400> 15785

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 aataaacatg tgcctaatgt gtgtgtgaca tatatggggg taatatcaac tgaatgcaatc 180  
 ctaccccaca agggcatttg atagaagact ccaagaagat tgggcccagag atgcagagaa 240  
 agggcccaagg gtttccaagg gccttatgat agatatgggg ccttgggctt cagtagatct 300  
 tgggcccatt tcatgctcct tctctccttc taactcact catgtttctc taacttcaag 360

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408

<210> 15786

<211> 446

<212> DNA

<213> Glycine max

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cactgtagac ctgggatgga cacaacaatt ttccctctcc agccagaggg gaatatcttc 180  
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gtgttgttct tccactcttc gtgtcaacaa atggtatctt acatcaatgt gatttctgag 360  
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<210> 15787

<211> 428

<212> DNA

<213> Glycine max

<400> 15787

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tgtcaagcgg gaggggaatg aggtctaag gtgttaaggg attgaaccca tagacaacct 240  
caaaagggga tgccttggtg gttctatgaa cccccctatt gtatgcaaat tctacatgag 300  
caagatactc atcccaagac ttatggttgc ctcttagaag agcccttaga agagtggata 360  
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gaagctta 448

<210> 15788

<211> 418

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
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ataaagagat tcattgcatt cattaactaca ttcgattcat tatatgagca cattcactat 360  
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<213> Glycine max

<223> unsure at all n locations  
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atgaagcctt ctgatgtcca agaagatcat atctntctaa aggccttttcc tcattctttg 180  
gagggagtg gaaaagattg gctatactac cttgctccca ggcccatnt cagttgggat 240  
gaccttaaga ggggtgttctt ggagaaatta atccctacat ctangtccac tgccatcaga 300  
aaagacattt caggcatcan gaaacttagt ggagagagct ngtatgagta ctgngaaaaga 360  
ttcaagaaaa tgtgtgcaag ttgtccccac caccagattt ctgagcaact ccttcttcaa 420  
ta 422

<210> 15790  
<211> 367  
<212> DNA  
<213> Glycine max

<400> 15790

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catatagatc ttgtgccttc ttgcagcaa tctggagtc atgagcaacc tgaagcctat 120  
 gctacaaaaca ttataatag atccctcag cagcaaaac aacaacagta gaataattat 180  
 gatctttcaa gcaacagata caatccaggt tggaggaatc atccaaatct aagatgggaa 240

<210> 15791  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15791

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 gagctccatc ctctaaaagt atcctatgca tgcaggtaga tgggctaata ctatgaatgt 180  
 ttgtctaaagt ccctccaata gctttattgt gcttctggag cactaacaac aactactcct 240  
 ctgtctcggc agtaaggag gcagagatga aactggata ttttctctg cctccaagt 300  
 aagcactctt gaggtttgct gagtagggt tcaactctga tgcgggtggt ggatgaatag 360  
 cgggaggaac cagtgtgaga gaacaagatg anggttctc agcctgtacc tcataaagca 420  
 tgtcataagt at 432

<210> 15792  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15792

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 cctcagatgg tccagcctc agcaacaaca acaacagctt gctcttact tccgaaatgc 180  
 tgttggccca agcagacct acattctctt accaatccaa caacagcaac aacctcagaa 240

acaaacaaca gttgaggccc ctccacaacc ttctctcgaa gaacttgtga ggcaaataac 310  
 tatgcagaac atgcagtttc agcaagagac cagagcctnc attcatagcg taaccaatca 340  
 gatgggacaa ttgctacccc aattgaatca acaacagttc cagaattct 419

<200>

<210> Glycine max

<400> 15793

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 atccgtttgtt cattttcgag cgtctctata tgtgatgaac cttaatcgga cctccgtgtg 180  
 aaaagttatg accatttgaa ttctctgaga gcttccgttg ttaaatctcg agcgtctcga 240  
 catattatgc gcccgaaatcg gacatccgtg ggaaaagcta tgaccatttg aatttctcga 300  
 gagcttccgt tgttcaattt cgagcgtctg gacatattat gcgccgaat cggaca 356

<210> 15794

<211> 459

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15794

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 cattcatcat tgacgggtac agaaagtccct tgtgcagatt gttttttccc atgaaagcat 180  
 ttttttagtt catattatta taacatgttg ttgaatttga attgaagtaa gtaattggaa 240  
 aagtgattac tcccaacggt tgaatatctt tttaagttaa actatctact tggatatgtaa 300  
 tgttctctat tttaagtttt ttgtctatat cattgtctac aaatctctat caatgttact 360  
 tattattaat tttgttga aaacttaac agtcaacctt aatggaa'ta ttctcttca 420  
 ttcaatcttc tgttattca caaaattcat actatatta 489

<210> 15795

<211> 405  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15795

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 ctgagatgcan ggaagaattt ctcaagaaca cctctttaag gtcacccctg ctgaanatgg 360  
 acctgngagc aaggtagtac agccaatctt ttgccactcc ctcta 405

<210> 15796  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<400> 15796

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 gaacttccctt ttgataactt aggtgttccc ctctttatcat cgagattaaa tgtatgtcat 180  
 tatgtccctt tgctttccaa gattactggc ctgatttagg gatggagcaa gaagtcttta 240  
 tcttatgcag gtaagttaga gttgattaga gcagttatcc aaggaattgt gaatttctgg 300  
 atggagattt ttcccttggc gcaatctgtt ctggacccgaa tcaacgcttc gtgccgtaat 360  
 tttctgtggg gcaaagcgaa tattgcaaaa acaagccctt gggtgcttgg tcagtagttt 420  
 gttctccgaa aa 432

<210> 15797  
 <211> 322  
 <212> DNA  
 <213> Glycine max

<400> 15797

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 tatatccctt ttgtatttg ataacatag gaaattgtc taggtactct acccatttg 180  
 catgtctctt gtttaacttg ctttgcctc taatgtactt aagtgttga tgatcactat 240  
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ttttcttctt ttttcttctt ttttcttctt ttttcttctt ttttcttctt ttttcttctt

<210> 15798  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15798

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 gtggccgaca aaagcggaggc tcttgcctct acgtatcctc caatgaggaa ctcagacctt 180  
 cgtagttctt gataacttgt gagacttgac aaagtctcca ccggaagatg ctgacatctc 240  
 cygaaagggc gcagatgacc acattggcct ctgctcgtca atcactctg nggtcactga 300  
 atgacgaggt gcggataacc gtaagggtgc tccgcgaact accagctctt gngtcatggg 360  
 aacaaanagc ggtgcggctg acaaaaagca acctcttgc cctacttato cc 412

<210> 15799  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15799

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 aagacaggca tatactggat gacgttctta ttggaatgag cttgtttgagg aagcaagagt 180  
 aagtcgcctg gaaatgatta tgttcaaggt tgatttccag aaggcatatg actcgatgga 240  
 tcttgattct cttatgatga agacggaaqa tatgggtttt ctttaagacat ggcattgatg 300  
 aattcaagaa tgcctgtaaa ctgcaacaat ttttggata cttaaaggga gtccatctaa 360



agaatatgtg tatgggtcaag gtcttgggta acaagatcct ttatcaacct tctgtgtct 420  
ga 422

<210> 15801  
<211> 447

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ctagctagta tgataaaaac attctccttg actaanatat cctcattaaa atagttaaaa 120  
tctaattgta aattagtcta aatagtaata tttttgcat agcacagtat acaatataaa 140  
ttgtatctt tatataacta aattcataat aataaaaaaca ttaatatgta aatctatatta 240  
caattaaagt tcataatana taaatatcta gaacatataa attatatgtt agatntacaa 300  
taaataatct atattgtagt acaagagtac tgttaactat ntgataatto ttttaa 356

<210> 15801  
<211> 447  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15801

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gtggccaagg atgcatggga gatcctgaaa accactcatg aaggaacctc caaagtgaag 120  
atgtccagat tgcacatatt ggctacaaaa ttcgaaaac tcgaagatgaa ggaggaagag 180  
tgtattcatg acttcacat gaacattctt gaaattgcc aatgcttgcac tgccttggga 240  
gaaagaatga cagatgaaaa gctggtgaga aagatcctca gatctttgcc taagagattt 300  
gacatgaaag tcactgcaat agaggaggcc caagacattt gcaacatgag agtagatgaa 360  
ctcattgggt ccttcaaac ctttgagcta ggaactctgg atagggctga aaagaagagc 420  
aagaacttgg cgttctgtgc caatgat 447

<210> 15802  
<211> 398

<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 15802

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 aadaactaca aatctacctg tgaaatccct taagacatga tgcataagcc tcataaaggt 300  
 gcttgggtgca cttagatgagc ccaaaagcat cactatccat tcatacaaac cagacttggg 360  
 cttgagagca gtgtctcact catcaccc 388

<210> 15803  
 <211> 395  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 15803

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 aagctcacc ccatgaaaaa atacatgaaa taaaaaaaaa tccctactac aaaggctaact 180  
 caaatgcct cgaaatacaa ggctaaaacc ctatactact agaatggcca aaatacaagg 240  
 cccaaacgaa ggataaacct attctaatat ttacaaagat aagtgggctc atacttagcc 300  
 catgggctng aaatctaccc taaggctcat gagaacctta gggccttccc ttggatctct 360  
 qcacaaatct acccggagtc ttctatccaa tgcct 395

<210> 15804  
 <211> 293  
 <212> DNA  
 <213> Glycine max  
 <400> 15804

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 aagaatgtgg catctacctg tgggaaaaa caagacaaag ccttttcttt gctcatadaa 120

aagctgacta atgcacctgt tctagctctt cctgacttgt ctaaaacttt tgagctataa 180  
 tgtgatgcct ctggagtggt agttggagct gtattgttac aacgtgggca ccatattgct 240  
 tatigtaatg aaagacttca tagtgcacac ctcaactaac caactatga taa 295

<210> Glycine max

<223> unsure at all n locations  
 <400> 15805

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 atggtatttaa actcaacatt cctccattta aaggaaagaa tgatccggag gccacttgg 180  
 agtmgagac gaanaatagag catgtttttt catgcaacaa ctatgaggag gaccataagg 240  
 tgaagctcgc cgcacggag ttttcgaact atgctcttgt gtggtggaac aagctacaaa 300  
 atgagagagc aagatatgaa tagccaatgg ttgatacatg gacagagatg acaaagatca 360  
 tgangaagcg gtatgtgccg gctagttact caatggactt gaaattcaag ctta 415

<210> 15806  
 <211> 359  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15806

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 actaaattgc ttcatttgt tntcgttcca taccatttct aggacattgt gcgagactaa 120  
 atttgtctcc tttctgaatt ggaacgggtg atgctgagca cttttccatc ctaaacctct 180  
 ctagtantct attgatatat gctttctaag acaagcctaa caatccttgt gatctatttc 240  
 agaataatcc taccctatc acatagcttg cctcaccatc attcttcatt ttatagttac 300  
 tagaaagaaa ctctcttagtg tctgaaaaaa ctatatcatt agttgcacca ctatcaca 359

<210> 15807  
 <211> 358

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15807

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gagaagaacg ttcttatacc tgcacaacta cctcaagaag aagatgagga agaagaccca 300  
ggtgaaccac cttcaactct caccacacaa caagatcaag aactatcacc acccgagtct 360  
actcca 366

<210> 15808  
<211> 397  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15808

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gtccatgaaa cttctctgtg tcaattgatg aatgagcccc acttaaaaag ttggaatatt 120  
gaggtgaatt atctttctgg gtgtttttca agagagcaag ttcttgaagt acttgggggt 180  
tatgtggaat cctctgtctg ggttatggac gctgctgcta taatggcaat tgcacttgcc 240  
aatgganggg tgagttgagc aaattcaatc ttgggagttt ttaatcacta tggttgatgc 300  
cccatagatt atcttttaat ttttttttat gcaggtgagc cccctgattg gcaagatttt 360  
gntggatcat cacttgctt ctcacatcaatt cactatc 397

<210> 15809  
<211> 319  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15809

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apattgcacag tggccaagga tgcattgggag atcctgaaaa ccactcatga aggaacctcc 120

aaagtgaaga tgcacagatt gcaactattg gctacaaaat tcgaaaatct gaagatgaag 180

gaggaagagt gtattcatga ctccacatg aacattcttg aaattgccaa tgcttgcaat 240

ctctcctcct cctctctctc cctctctctc cctctctctc cctctctctc cctctctctc

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<210> 123  
<211> 152  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15810

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tgcctccacat tatttccatg acacaaatgc aaaaatgatg atttggaac tttatgcaaa 120

atttggtcatg catgcattct tgcggacact caaatgtcaa atttttatgg tcatgtgatg 180

ctaggggccca ggattcattt cctctatttt atatcaacc c aatgtttcca aaatatgttc 240

ttttatccat ttgtgcattc atccaagtc atttcggggc tccgggaaaa tttcacagca 300

ttcaccttcc aggtttacac acatttttt tcccaaaac tagctatgaa ttagcgaatt 360

ttcttcacag aaaagttgga agtcattctt tttcaaaagc atgttttggt ttcagctaga 420

cacaaatattt ttcttttttt tctcttttt tt 452

<210> 15811  
<211> 113  
<212> DNA  
<213> Glycine max

<400> 15811

ccttggaatct tcttcatcaa tgatgttact tgcttcttga agatcaatga caacagaatg 60

gagaatgagg aatgggtgat gaagacytca ctccacatat aatatgagtc aag 113

<210> 15812  
<211> 359  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 15812

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aatgaacaa tgaagcactc gagaaattca aatttcataa cttttcacac ggaagtcctg 120

cttctctctc tctctctctc tctctctctc tctctctctc tctctctctc tctctctctc

cttctctctc tctctctctc tctctctctc tctctctctc tctctctctc tctctctctc

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<410> 15813

<411> 339

<412> DNA

<413> Glycine max

<423> unsure at all n locations

<430> 15813

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tggaaggcct ctctatttgt acatgacaat cttggacgag tcaatggggt gtatgctggg 120

gcaacatgac gaatccggaa agaaagagcg cgctgtttac tacctgagta agaagttcac 180

gaacctatgaa atgaattact cgttgctoga aagaacgtgt tgtgctttag tatgggcac 240

ccatcgctta aggcagtaca tgctgagcca tactacctgg ttgatatcca agatggaccc 300

ggttaagtac atctttgaaa agccagctct caggggacga atcgcccggt ggcaagtcct 360

getatcnega attgatatag tctaagtc 389

<210> 15814

<211> 297

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15814

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tctgagtcct ctctatgtca tactgagtg acacagagac aaactctcca attgccatgc 120

tacaagcccc agcaactaat cctgcaaaa cagcaagaag catggcaatg atctctntct 180

taaaagctcc aaacccatc atcagtgaag caacagaaa caacccatca ttagctctta 240

acactgcagc tgaagccac tgggcccttt gagagtaac aataatgcta ctactct 297

<210> 15815  
<211> 294  
<212> DNA  
<213> Glycine max

gaagtcac atgtctgac tcagtctttg tggtyccagt tatatatctg ttggaccaac 120  
ttcaattaat gcaattgat ttaagatgaa atataacatg atatcagagc ttatagtccg 180  
tcttagtctt ctctaccatg tnggttgaaa aagcagcagt acctgagatt ntcctccagt 240  
tggttgctct ttagaagagc acctacatac tactaatctc attaacagtt aatc 294

<210> 15816  
<211> 334  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15816

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caacacacat canatagtgc actgaatgca tgtgaaatta taaaactacc cctaatacaa 120  
aactacccca naataatga aaccctaac taatatgtac aaagataagt gggctcatac 180  
ttagcccatg ggccaaaatt ctaccctaat gccttcttca gcagctctag cccaatattc 240  
ttggagtctt ctatacaata ccttggagg gaggattaca tcatatgtgg atattattct 300  
tgatagtta atatgccaat gatggacaaa gtct 334

<210> 15817  
<211> 312  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15817

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cttgagacat gaatttgaca agagtttttn tgaacaaaaa ggtcttatac tcttaaaaag 180  
aanaatcggt ttatctctctt acaaattcct tggccaaaac acttgtgatt caataaggaa 240  
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<210> 14  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15818

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gtctgaaaaa ctcatatctg tcaagtaaac gaaacattt ttctggtgtg tgtgttccca 120  
ttggcaaggc ctaccataa ttcaagagat gcagcatgaa actctgagaa atttcagaa 180  
agcagcattg ataaaaggat ccaaaatcac caaggatttg ctacacaaat cgtttctcac 240  
tgaacaggta caccgaaca atgatcttca tggctcgaat ccatttcttt atctcgttgt 300  
tcaagcaatg ccactccagt ttatcacat ccttcattct taacttt 347

<210> 15819  
<211> 318  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15819

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tcgggtgcag aacagttgga gagtctgcat cgaactatct aggetgaacc aggttaccaa 180  
aaaggaccat ttccctctgc cattcattga ccagatgctt gaacgcttg caggtaaatc 240  
tcaactactgt tctctaatg gtttctctgg ttatattaaa tcaactattgc tcttgaggat 300  
cangaanaaa ccattatc 318

<210> 15820  
<211> 233



<212> DNA  
 <213> Glycine max

<400> 15320

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tttcaaaa ttcttctt tttttttt ttctttttt ttctttttt 120

<212> 15321  
 <213> 392  
 <212> DNA  
 <213> Glycine max

<212> unsure at all n locations  
 <400> 15321

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tctggaaaagt gtgagagtgt tgtgcaaaga acaaaggana gggattcaag agatggcaaa 120

tagattgttg gcacaaaact atggagttgt gtgcaatttg aagcactaag agaaacaagg 180

ttagcgagat gtccaactga tttatgaatg ctaaccaggt tctcgcatcc atcaagtato 240

aattntetta aattcatggc tctagacaca tcaggaaatt cagaaacctt atcacaaccg 300

gagatattca tctaagtcaa atgggtcaaac tgcaaaacat acataanato agataatcaa 360

ttaacaacag tacatcaaaa tcatgtcaat ta 392

<210> 15322  
 <211> 284  
 <212> DNA  
 <213> Glycine max

<212> unsure at all n locations  
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catgcataac atcaatacaa tgtctaacgt caagatcaca ccagtaacga agatantaga 180

aatgcacctc ttcttcatat gcaactctga ctttctcctt cttttgggtt tcccaataca 240

ctgttcaggt gtgaacccac tgatatcct gtccaccagt caac 284

<210> 15823  
 <211> 403  
 <212> DNA  
 <213> Glycine max

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 ttcgtgttta gaacttcaat tctgggtctc aattcagatg tgccttactt atcaactccaa 240  
 ttccaggatt gaacttcata aaacttcaaa tctctactca acactagttt ctgagtttga 300  
 ggaataaaaa cctgttatgc accagtagaa tggtaacga gaaatatgaa gttctcactc 360  
 ttgtcactcc aattctctt tattgcgtct ggaatatgct tat 403

<210> 15824  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15824

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 ttccaagggg gttagacatc atggttgcat ggtangcaaa catctcactc atgtggttct 180  
 tcaacacttg accaatgtta ggtggcattt taccacttgg tatagtggct tttgtttgca 240  
 atgctactat gtgccttact tgcacaactt ttagtgggaa cttttcatta agctgttctc 300  
 tagacaacat tattccgtta gaaccttctt gaacaacaat tacctaaatt gataacctta 360  
 ttcttggttag agtcgggtga acaatcatgt tgtct 395

<210> 15825  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15825

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 taaatggctc tggatgtggt atgaaataat tacactcatt cctttccaac catcatttac 120  
 gtcaataaac ttccacattt tgaaattctc caatttacag gctaggggca tgaattgctt 180  
 tgcattatca tgcattatca tgcattatca tgcattatca tgcattatca tgcattatca 240  
 tgcattatca tgcattatca tgcattatca tgcattatca tgcattatca tgcattatca 300  
 aacaagaaga ttgatgatgat gtctngttgg atgatagttt atgatggaaa 410

<210> 15826  
 <211> 379  
 <212> DNA  
 <213> Glycine max  
 <220> unsure at all n locations  
 <400> 15826

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 ggttgggaaga atatcatata tgtatattga atgtgtgcaa aattcatgct tttatagact 120  
 ctccatgtct ggtcaaagaa accattggaa gagtnatgac ttttgagaaa accatgttaa 180  
 gagttataac tcttaaactt ttcttcnaaa ctgttccactg gtaatcgatt accacaaagg 240  
 tgtaatcgat tacacaatgc attttatgaa nagttgtgac tcttcacaat tggatttgaa 300  
 ttccaacogt cagaatcatt tgtaatcgat tactaatata nggtaatcaa ttagactatt 360  
 tgaanacat tttggaatg 379

<210> 15827  
 <211> 289  
 <212> DNA  
 <213> Glycine max  
 <400> 15827

aggaaccccc agctataatg cgttcttttg aacctctatg tegtctggag gatgaaggca 60  
 accagttcta tatccagagt aagaacaata tgtgttgggt gtggtgaagg aaaccactac 120  
 ttacggtatc aataatccca tegtgttaca aaacacattt ccttgacat ctgaaaagcc 180  
 atcgtttcca tgacattctc ctacttggg tggatttctt tgaagttgca catgctgctg 240

cagaaaagta tatgagaaaa gtatgtgttg aatttgggat tectctcta

289

<210> 15828  
<211> 380  
<212> DNA  
<213> Glycine max

ggtttttt ggtttttt ggtttttt ggtttttt ggtttttt ggtttttt  
ggtagtgcc aatttagaaa atcctcaat gaatttcta taatagccag ccaaccccaa 120  
gaaatntga actctgttg gagttgttg ttgttgccac tccataacag actccacttt 180  
aattggatcc acagcaacc catctttaga aatcacgtgc cctaagaact gcactttctc 240  
taacaaaaat tccactttcg acaatttggc gaacaatttc ctatccctca ggatatgcaa 300  
tacaattctc aagtgccttt catgtcctc ttatttctt gaataccta ggatatcact 360  
atgaacaca accatgaact 380

<210> 15829  
<211> 325  
<212> DNA  
<213> Glycine max

<400> 15829  
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tttcgatgg ctcttcccg ttctaagctt caattggagt cttgtctttt acagacttag 120  
ttggacatct gttgagtatg taaatagtag tgtagattgc ttcagcccag aatgtgtag 180  
gtagtccctt ctcttgagc atcgatctag ccatttccat aactgtgtga ttctttctct 240  
cugacactct atttgttga cgagactatg cgactggtag ttgtcgtcct atgccttcat 300  
cctcacaaaa tcttctatcc tccag 325

<210> 15830  
<211> 419  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15830

ttgcttctta tgtgtgacat aaaatagta cgataagatt tgattgggtg gcaatacaca 60

tttaattata ttatttgtat ttctctcatt atttcacttc tcatatatga tccacacaaa 120

catataataa agatctaaga caagcttgaa agatgatctg ttttaagaaa ttggaaggt 180

tttcttctct tttcttctct tttcttctct tttcttctct tttcttctct tttcttctct 240

ttgagaagc taaatfratt ttacacatat gtatgaacat caaactcata nttacata 420

<210> 15831

<211> 328

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15831

ctcaagcctg cattctatgc ccagaaagta ctcaagagtg ctattttgct taatataana 60

ggnancatnc aacttgttca cgatgagggt aatagcagtg ttggaggaac ccgtgatgat 120

tatatcatct acataaatga gattaagcag gcagcaacca tgttttgtga atacgagaag 180

agagggatca cacttggatt gttgaaaacc aaaggagatg agagtatttg tcaaactctc 240

ataccaagcc cttggggcctt gttgtaaacc atatattgcc ttgtgaagtt tgcatacaag 300

agtggattca ccttgatta aagccttg 328

<210> 15832

<211> 342

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15832

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gagaaggagg aagggtgatt gaagacgtca ctccaagag aatatgagtc aagaagaaac 120

tcaccacaat aggaagtcac ggataagagc tngaaggtan gagaagatga gtgaagggag 180

aggyaaagaa gacacagana tttatgcctc anagdaggtc taaactttga agtataatc 240

tcacatgac aaagttgaaa aaaatgcaca cacaagacct ctatttatag cctaagtggt 300

acacaaaatt agaggaaaaa ttgaatttct attcaaattt ca

342

<210> 15833  
 <211> 356  
 <212> DNA  
 <213> Glycine max

ttgaatttct attcaaattt ca  
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 attcaaatag tctaaagttt ccacacggat gtccgaatca ggcttataat atctcgatac 140  
 gagcgaatat aaacatcgaa aactctcgag atatcatatg gcgataaatt ttacacccga 240  
 tctcggatct ggggcgataa tatgtcgaga ggcgcataat tgaacaacag aagctcttga 300  
 acaatccaaa cggtcataaa cttccacacg ggtgttagat taatgcgcac cacata 356

<210> 15834  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<400> 15834  
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 agagagcaag aaatgaagag ccaatgggtg atacatggac ggagatgaaa aagatcatga 120  
 ggaagcggta tgttcgggtt agttactcaa gggacttgaa attcaagctc caaaaactaa 180  
 cccaaggcaa caaggggggt gaggagtatt tcaaggaaat ggatgtgctc atgattcaag 240  
 caaatattga agaagatgag gaggttaact tggctcgatt tcttaatggt ttgactaatg 300  
 atactcgtga tattgttgag ctgcaggagt ttgttgaaat ggatgatttg cttcaciaag 360  
 caatccaagt ggagcaacaa t 381

<210> 15835  
 <211> 338  
 <212> DNA  
 <213> Glycine max

<220> unsure at all n locations  
 <400> 15835

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 tgtccgattc ggggaaataa tatatcgaga cgcacgatat tgaacaacgg aagctctcga 120  
 gaaaattgaa tgggcataac atttcactcg gatgttcgat ccggggacat aatttatcga 180  
 tgggtttaa tgggtttaa tgggtttaa tgggtttaa tgggtttaa tgggtttaa 240

<210> 15836  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15836

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 aatttctcga gagctntggg tgttcaattt cgagtgtctc gatatattat gcacctgaat 120  
 ccgacttccg tgtgacaagt tatgaccatt tgaattttaa gagagcattc gttgttcaat 180  
 ttcgagcatt tcgatatatt atgcgcctga atcggacttc cgtgtgacaa gttatgacca 240  
 tttgagtttc tcaagtgtt ccgttggtca atttcaagct tctcgatata ttatgcgcct 300  
 gaatcggact tccgtgtgac aagttatgac catttgaatt tctcgacagc atacgttgtt 360  
 caatttcgag cgtctcgata tattatg 387

<210> 15837  
 <211> 258  
 <212> DNA  
 <213> Glycine max

<400> 15837

tctcgatata ttatgcgcct gaatcagact tccgttataa atgttatgac catatgaatt 60  
 tctcgagagc cttcgttgtt caattacgag cgtcttgata tagtatgcgc cttaatcggg 120  
 cttcgtgtg ataagttatg accatttgaa tttgtcgaga gcttccgatt ttaatttat 180  
 agcttctcga tatattatga acctgaatcg gacttctgtg tgacaagtta tgacctattg 240  
 gatacctaca tagcattc 258

<100> 19938

<P10>	15839
<P11>	396
<P12>	DNA
<P13>	Glycine max

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cagctaattt	caatcattat	gcatngtatt	aattcagtec	aatctaattc	attgtggaat	120
ggtcataggg	ttgccccctt	cttacctcaa	tgtggcttga	gacaaggaga	tcccatgtct	180
cogtatattg	ttgcgacgtg	tatggataag	tcatctcctc	taatccttta	agctcttcat	240
gcaggtcaat	ggaagcctat	gagagctggc	cgaaatggac	cattcatctc	acacttaatg	300
tttgiggatg	atcctttact	ctctggaaaa	gcacaaataa	gtcaaattaa	atgtattcaa	360
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<223>      unsure at all 4 locations
<400>      15840

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6612



agttctaata agatatgata acttattaaa taagcaattg attagttaat ctaacaacat 120  
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 actttcacia aaatcaatgt tgaacagaa gtttataaac acagaanatt ataaattaaa 240  
 atttctatct ttttataata aaatttctt ttttcttctt ttttcttctt ttttcttctt  
 atttctatct ttttataata aaatttctt ttttcttctt ttttcttctt ttttcttctt  
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 tag 483

<210> 15841  
 <211> 288  
 <212> DNA  
 <213> Glycine max

<400> 15841  
 agcttggttag aaaatctaatt ggtcattact tgtaactcgg aggtccgatt gaagcgcac 60  
 acatatagag acgctcgata ttgaacaacc gaagctcttg agatattcaa atgggtcatca 120  
 cttttacctc ggaggtacta ttcattgcga tcacatatag agacgctcaa aatcatacag 180  
 cygaagctct cgagatattc aaatggacat aaattgtaac tcggaggtac gattcatgcy 240  
 catcacatat agagacgctc tgtattgaac agcggatgct ctcgagat 288

<210> 15842  
 <211> 261  
 <212> DNA  
 <213> Glycine max

<400> 15842  
 gtgatcacct tggcaacttg atgctcacia tcacccatat ctatcactcc atcaagtgg 60  
 ctaccagat attagccgat cacatcatgg gagaatatat cacacttgcg tctgacaaga 120  
 cactctcgat catcactcct cttctgtctt gatatgtcag aggyaatgct gacaatgaat 180  
 acctgacta ggccttcgta acagtcttcc agcttgggtga ctgtcttcag tagacagca 240  
 gacttggtga tctccatgat c 261

<210> 15843  
 <211> 382

<212> DNA  
<213> Glycine max

<400> 15843

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gaattcttca tcttcaatctt agcgtctcga tcttcttctt tcttcttctt tcttcttctt  
agtaaaaatt tatggctcgtt tgtattggct ccgagcttca acgttctatt tctgagcgtct 300  
cgatatgtta cgggactcaa tctgacatcc gagaaaaatg ttattggctg ttgcattggc 360  
tcagatgttc tacactcaat tt 392

<210> 15844  
<211> 440  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15844

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agcttttagtc aaacagaata atccgaaaat gtcaaagaat tgggtgttga aaaagcataa 120  
caagactttc tgtgattggc ttaaagatac aatcttttga gatgagaatg cttcagaaac 180  
attaagaaag ctagcagatg ggctaaaag aaatgttata acctggcaag gatatgacaa 240  
aagtacaatg tataacagtg gggtcacctt aagggctgaa tcttaacact ttgcaaggta 300  
ctagggggcat tgcacaggcc gaaaggcatc ctctatang caaaagtgcc gaagggggcag 360  
gtgaatgtgg tcttttcttg atcttcanga gcaatagtaa tatgcatata accagaaaaa 420  
ccatcaagga aacagtatgt 440

<210> 15845  
<211> 210  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15845

atctcgacat attgtgtgcc cgaatctgac catcgtgtga gaagttatga ccaatnga 60

ttctcgagag cttctaattgt ttagtttctga ggcactcgat atattataag catgaatcgg 120  
 accttagtgt aaaaagttat gaccattaga attctcaaga gcttccgttg ntnnaatttg 180  
 agcgctctga tatattataa gctgaatcg 210

<223> unsure at all n locations

<400> Glycine max

<223> unsure at all n locations

<400> 15846

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 ctagctcttc ctaacttttc taaaactttt gagctaaaat gtgatgcctc tggagtggga 180  
 gttggagctg ttttgyttga aggtgggcac cctattgctt attttagtga anaacttcac 240  
 ggtgagacc ctaactacc cactatgat aaagagcttt atgccttaac aagagcactc 300  
 cgaacttggg aacattacct tgtttccaag gaatttgta ttcattagtga tcaacaatca 360  
 ctttaagttca ttagagggca aagcatgta nacaaaaggc atgcaaatg ggtagagtac 420  
 cta 480

<110> 15847

<111> 432

<112> DNA

<113> Glycine max

<400> 15847

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 ttcatttca agggaaatgc atcaatgatt actctagagt ctccaagtta ttgtgtcacc 180  
 tagagacttc gagcgcaatg actttcagct gcaaaaatatt ctgcttccgc ggtgaatagt 240  
 gctacacaag ctgttttctt gtcattccaa gatacaagag agctttctaa tagatggcat 300  
 gtccacttg tgccttctct atctagttat gatccttcta atagatgta agggaaaatg 360  
 ctttaagatha tcttgatacc tagtcacag aaacactaag catctatctg gtgattgca 420

gtaagtaaaa at

432

<210> 15848  
<211> 331  
<212> DNA  
<213> Glycine max

atgattgaga gttttttttt gttttttttt gttttttttt gttttttttt gttttttttt  
ttagttcgtt tctggaacac aagattggaa gctatttgta tgggtggaata attatcacaa 120  
taaagaatgg ctgggtgaag gaatgaaact ctaaaatctt ggagaagata agtgagccac 180  
tgaagctcgc atgtttgtgga tgcataagca cgacattcag ctccggaaaa actgcgagag 240  
attgtggatt gtttctttga tttccaggag atgtgggagg tactgagata aacagtaaac 300  
ttagtgatgg agtgtctgga atcccgaac c 331

<210> 15849  
<211> 462  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15849

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aatgcatacc acanacacct tcatgtagtt ctgaagaac atagtaagcc tggctcttgg 120  
caagacattt tgagtagagg tgaggagaaa cctctcttat atagtttgtc agtcactaag 180  
gtataccaga catcttgcac tcttagttgt ctggcttttc ccttgtctat tgtgagtgtc 240  
tcatgtttta agtactcgac tatctctttt ttccatctcg aagggccttc ctccacctgt 300  
aagcattctt ttcctgagat gttggygtcg ggaaccaaata ggagtgtgaa tgttnttagt 360  
taccgaaggt taggtcaagt tgcaagttaa gccaaactgt cggctttgtc attaaactct 420  
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<210> 15850  
<211> 485  
<212> DNA  
<213> Glycine max



[illegible]

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<110>      15354
<111>      459
<112>      DNA
<213>      Glycine max

<221>      unsure at all n locations
<400>      15354

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cggtcacaa atgggtgtga gctgcgatat gaatchggca atataattca agcgtccag      120
gaaacctcgg acctgcctct ctgtacggag ttctgggcat tcaaugatag ccttcacctt      180
ttcggggctt acctctatcc ctctctggct tacaatgaaa ccgatttaatt tccctgaatt      240

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gaccccaaaag gtacacttag cggngttcaa ccttaattga tatttcttaa gcctttogaa 300  
 caacttcegc aggttgacaa ggtgttcttc ctgggattta gatttagcaa ttatgtcttc 360  
 caagtagacc tggatctctt gatgcacat atcatggaac aaagctacca tggcctgttg 420

<211> 411  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15855

ntaatgaact tcaacttttg cttgagggtg tatctctccc aaccaatatg gtgatatttg 60  
 ctccacttaa gagccaccat antttggaat cctttgtctt gcctccacca atccatgatt 120  
 ntgaaagget tangtcccca gtcaatgatt ntggatctca aaagaatagg gcagtggctt 180  
 gaanaattcc tatccaacac aaactgggtg gtatcaggcc attgaaccag cccaatttca 240  
 gataagaaaa acctgtccag ctactcatg gcacttccat taggtctgaa ccaagtgaac 300  
 attctgccaa tagatctaac ctctctaaag gccataagtg aaatccaaga gttgaattca 360  
 gcaatgctag aggagttgac cacattctga gatgaactca ctctctcatt ntgatgtcag 420  
 tggagaaaagg tgatgaca 438

<210> 15856  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15856

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 gatatattac gggactcaat cggacttccg agtgaaaatgt tattgtctgt caaatttgc 180  
 acgagcttcg gttttaaatt tctagcgtct ggtatatatta cgggactcaa tggacttcc 240  
 gagtgaatat ttattctctt tccaatttgc tatgagcttc aatttaatat gtcagcgtc 300  
 tagatatatt acgggactca atcggacttc cagtgatat gttattgtct ctgatttgc 360

taagagaactc ggtctttaatn tctatcgtct gatatttacg gactc

405

<210> 15857

<211> 423

<212> DNA

<213>

ttatgcaatc tggatgaca ataacatttc actcggaagt cggattctgt tgggaaatc 60

atcgacagc tcaaaattta gaaccgaagg tcgtagcaca ttctaacgac aataacattt 120

actcgggato tcggattgag tcccgtaata tatcgagagc ctcgaaattt aaaacccaag 180

ctcgcagcaa atgctaacga caataacatt tcaactcggaa gtcggattga gtcctgtaat 240

atategagac gctcaaaatt tagaacgaa gctcgcagca aatgctaagc acaataacat 300

tcaactcgga agtcggattg agtgcgtaa tatatcgaga cgtcgaaat ttaaaacga 360

tgctcgcagc aaattcgaac gacaataaca ttcaactcgg aagtctattg agtcgcgaat 420

ata 423

<210> 15858

<211> 237

<212> DNA

<213> Glycine max

<400> 15858

agcttaaaca ttaatttcg agcgtctcga tatattacgg gactcaatca gacatccgag 60

ttaaaagtta thgtcagttg aatttgctca tagcttcaac atttaatttc gagegtctcg 120

atatattacg agactatata agacatctga gtaaatagtt attgaagctc gaattcgctc 180

ataggttcaa cttcacttt cgagcgtgtc gatataattac gggcctcaat cacacat 237

<210> 15859

<211> 438

<212> DNA

<213> Glycine max

<400> 15859

actcaacatc gttgcaacat tataatagat ctccctcagca gcataaccaa caactatctg 60





catgtaatcg attaccaatg gtttgaaagt gtgtaatcga ttacacatca tatgtaatcg 300  
 attaccagag actttgaatg ttgggaaatt aaaaattaaa tgaagggtca caactgttca 360  
 agaaaaacaa ctgtgtaatt gattacatta attctgtaat cgataccaga gaggaattta 420

<210> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15862

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 gggtctgcat cgactataag acgtggaacc atgttaccaa ataggaccat ttgcaactgc 180  
 cattcattga ccagatgctt gaacgcctgg caagattcta caggcgctct attagagaat 240  
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<210> 15863  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15863

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 ctttcaactc qgaggctcga ttcagggtga taatatatcg agacgctcga aattcaacaa 180  
 tgggaagctct ggagcaaact aaatggtcat aacttttccac taggagggtc gactcatgcg 240  
 cataatatat cgaggcgcct gaaattgaca accggaagct ctcgagagat tcacatggtc 300  
 ataaactatc actcagaggt tcaggctctg tgcataatat attgagacgc tcgatattga 360  
 acaacagatg ctctcgagat attaaatgag cataactctt caetta 406

<210> 15864  
 <211> 433

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<410> 15864

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agttaaaagt tatgaccatc tgaatttcta gagaccttcc gctgttcaat ttagagcgtc 320  
ttagatataat atggcgctga atcggacctc cgagtgaaga gttatgaaca tctgaattgt 360  
tccagagcctt ccattgggtga atctcgagcg tctcgatata ttatgcgcct gaatcggacc 420  
tccgagtga aag 433

<210> 15865  
<211> 469  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15865

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tattcagggt gatattaaat aaactgccta attatcaatt atatcatgca ttgggctgat 120  
aagagctoga cgcctattatc tctatactca atacatacta tcaaggatac tttatcagtg 180  
gtcacaggaa atgtacgtgg taccatttca tcatactatn tagcattaaa ggtatgctct 240  
ccctatatct atatctttat gcacactata caagcttaca actagttggg ttagaataat 300  
ataataactg tgattatata tataatcaaa ctgtagcgtt tacaataata tgatttaata 360  
agtagatatt acataacgta gtaataatta tagttgttta tctggactcg ctgaatgtta 420  
agacacaaaa tgtcaacttc cacatgttcc tattgtcagt aactacact 469

<210> 15866  
<211> 423  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 15866

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ctgtatgtat tatttgcac catgtctgga caacatatgt ctgtatgtat

ctgtatgtat tatttgcac catgtctgga caacatatgt ctgtatgtat

ctgtatgtat tatttgcac catgtctgga caacatatgt ctgtatgtat

tgaggattct tcatcacaac tacatcgtn. taacccaaca gaaacgtgca tagaagtagc 360

gtcattttgc aattcaatcg aataaagacc atcaaccaat tgaccacaac caataatttc 420

<410> 15867

<411> 466

<412> DNA

<413> Glycine max

<420> unsure at all n locations

<400> 15867

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caggggctga agtctctttt ggtgaggtag ccattggaaaa gcagagcgtt tggaatgggt 120

tagcaaatct ctgagagctg ttgggggatg ctgaatacga gattatcacg aatatataag 180

tttgaatgaa gaattgtaaaa ggccgtgtga agcaacgggc gaatttgctt tggttcagta 240

gtgaacgtgc tattaatggt aggtgattcg ttggggcaac tcagatatca gtagttgcta 300

caattcctct agcagacaaa tgccagctt gccctcagc tattcaaac gtntgtcgc 360

caatgccttt gtaaaatata tgctatttgt tctcagtggt tcacatgctc cagtgtgata 420

actctatcat caacaagctc tcttgatata gtgatgtctg atgtca 466

<410> 15868

<411> 419

<412> DNA

<413> Glycine max

<423> unsure at all n locations

<400> 15868

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tgggttctctt tttgggttctt aacctctctca tgcaactctt ttacaaattc tgacctagat 180  
 tccccctctt tatgtataaa agaagtgtcc agtgggaggg gaatgaggtc taatgggtgt 240  
 aggggattga acctatagac aacctcaaaa aggggactgc ttgggtgggtc tatgaacctc 300

<211> 158  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15369

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 tacaagacat ctgtccagac aaagtccagt tagccataac tctctgtgc ttctctctcc 120  
 tagccatatt tagccanagtc gttgacctta tcatgtttga tgagctggaa aatgaggtgt 180  
 caattatact gtgccagttg gagatgtatt tccccctac cttctttgac atcatgattc 240  
 acttgattat gcctctctgc agagaaatca aatgttatgg tctgtttat ttgcagtggc 300  
 tctccccagt tgagcgatac atgaagattt taaaatgata tgaatatcta tatatccaga 360  
 acatctattg ttgagaggac attgcagaag ngccattgaa ttctgtcaga atacatcgag 420  
 aagctaaacc tgttggcctt ctaagtctca gcctgatg 458

<210> 15370  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15370

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 ttattaatat acagatagag atatcttaat gatgaaagct tccccaatga tcttggaaga 180  
 gcaccaccaaa ttaagtgtgt ggaaaaatct agcatgtcta tatttttaaa aacctcaatt 240  
 tgatctgtca gattgctca nagtctgcaa ctctgacttg caagtgtctt gattccatgg 300

gatatacaat gagcaagaat ttctgaaagt catthaacctg gtggctgagt ctgagatatg 360  
ataaacctat ctccct 376

<210> 15871

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taatttntga acagcaacca atataagtac atttttttat ttttaactat tatctaaaca 120  
tggtattttt ttttaagat gaatgtgata atttggttaat aatataatgta ttatataaga 180  
aacattaaat atgcttgatt aaacatttca aattaatttt aaattacaca ttaaagtgtt 240  
ctaagtttaa taaagtgtca ttaataatat aaacattaaa aattgattaa tttatataaa 300  
gaattttact tataagaaac tttacatgt ttcttttaaag aggcattgtat tgtttattca 360  
atgaatttta ttctttccaa catanacta tctttttgtt ttaattacc 409

<210> 15872

<211> 375

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15872

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ctatacgaga catcttgccc aacaaagtca ggttagcgat aactcgctg tactttntct 120  
tccatgctat atgtagcaaa gtcattgac cagtcaagtt tgatgagttg gaaaatgatg 180  
ccgcaattat actgtgcacg ttggagatgt attttcccc tgctttcttt aacatcatta 240  
ttcaacttgat tgtgcactcy gtcagagaaa tcaaatggtg tggctctgtn tatctacggt 300  
ggatgtactc gggtgagcga tacatgaaga tottaanagg gtatcacatg aatctatct 360  
gtccagaagc atcta 375

<210> 15873

<211> 440

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15873

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ctctctcttc cctctctctc cctctctc cctctctc cctctctc cctctctc 120

gatctgctgc ccttcattag aacttcactc ttctcatttg tcaccaagca ttctgacttt 300

ggaagttta cattgaatcc ttcacacac aactgactga tgcctgatca gtttcagtc 360

agtccttcca ccagcagtao tgtgttcaga ctatgaagtc catcattgac tagctntccc 420

attccagtga tctttcctta 440

<210> 15874

<211> 498

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15874

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gaagctctcg agaaattcca atggtcatta cctttaactc ggaggctctga tttaggcgca 120

taatatatca agacngctcg aaatgaacaa cggaagctct ctagaaattc aaatggctcat 180

aacttttcac tccgagggtc gattcaagtg catgatatat ccagacgctc gaaattgaac 240

aatagaagct ctcgagaaat tcaaattggc ataaccttta actcggagggt ccgatttagg 300

cgcataatat atcgagacgc tcgatattta acaatggaag ctcttngca attccaatgg 360

tcataactnt taactcggac gtccgattcg agtgcanaat atacgagac gatcgaaatt 420

gaataatgga agctattgag caattcatat gatcataact nttaacttgg aggtccgath 480

gaggcgcata atatatcg 498

<210> 15875

<211> 380

<212> DNA

<213> Glycine max

<223> unsure at all n locations  
 <400> 15375

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gagatgggtt gtaacatac taaacotcaa aggggtgttg atcttcaat gctctggtgg 120
ctctcttggct ctacggaaca tgagtaatac aaaaacaacc aaatatotta tgaainfca
ctctcttggct ctacggaaca tgagtaatac aaaaacaacc aaatatotta tgaainfca
ctctcttggct ctacggaaca tgagtaatac aaaaacaacc aaatatotta tgaainfca
tcaatgtgtc tggggccttg caacataat tgatctgaac cgttccttc 350
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<210> 15376  
 <211> 394  
 <212> DNA  
 <213> Glycine max

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<400> 15376
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tgttaacttt atcacaaaaa tgatatgcta atctttaaga tataaaaaga actcatgcac 120
acattaatgt agtacattta tgaacatgag catgtgtaaa atatcttact atatatgtca 180
acatacagagg acattcatca cattctagt ttaccacata tatacatctg tgaagaagaat 240
acacatttcc atgttcaatg cattgagcaa aaattacacc tattcacata ctatatatat 300
tgetatcaca aactacctac acatatgtga agatgtatca taaaatttct gtatgtactc 360
catatattat atcacactga aagtaatacg tatg 394
```

<210> 15377  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15377

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taaaaagtta ttgtagtttg aathtgctca aggttctagt attccatttc gaggctctcg 120
atatatracg ggactcaatc ggacatccga gtaaaaagtt athtgtgttt gaathtgctc 180
agagctctcg tattccattt cyagcatctc gatataatc ggagctcaat gagacatccg 240
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agtaaaaagt tattgtagtt tgaatttget caaggcttcg gtattccatt tcgagcgtct 300  
 cgatgaatta cgggactcaa tcagacatcc gagtcaaaaag ttattggctg ttgaatttgc 360  
 tcagagcttc tacatccaat ctgagcttg tcgatatatt acgggactca atcagac 417

<222> unsure at all n. locations  
 <400> 15378

actcggatgt catattgagt tccgtaatat atcgaaaagc tcgaaattga atgttgaagc 60  
 tctaaacaaa tccaaacgac aaaanacttt taactcggatg tctgattgag tcccgtaata 120  
 tatcgaaaag ctcgaaatgtg aatgtagaag ctctgagcat attcaaacga caataactnt 180  
 ttaactcggat gctcgattga gtcocgtaat atatcgagat gctcgaaatg gaataacgaa 240  
 gctctgacaa atncaaacaa taataacttt ttaactcggat gtcgattga gtcocgtaat 300  
 atatc 305

<210> 15379  
 <211> 301  
 <212> DNA  
 <213> Glycine max

<400> 15379  
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 gaacttgagt gttttgtgag ccaccttgat gtcacctaa catcaagtgt tggacctgag 180  
 tgtgtagagc tgatctctat tgttcagaga gcaatctctg gtgtgtctctt gatttatttg 240  
 tatanaccgg agagtgattg agagggagtg agatggcgtc tcatatctaa gagtygctct 300  
 t 301

<210> 15380  
 <211> 306  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n. locations



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aataagattt cttttgagtt ctggaatggt accttacatt ttcagtagat acctctat 360  
atcaaacatc ttaattctca ca 382

<400> Feature at all locations  
<400> 15883

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ctaaattaag aaaattggtg aatttagttg agggcattaa agacattntt gtgaaaaaaaa 180  
taatacaaaag gacattntar gttgaacctt ataataagga tcaagtgaac cttgtaattg 240  
gcatattata ataagcatta gatggagtac catattaaca cccataantt ttcttttact 300  
ctttttctat catgtaatat caattaacca tacttgatnt ctttctcttc tctctttatg 360  
tgtcaattag tggtaaatga atgtntntnt catttcttaa ctcanattga aatagaaat 420  
atttattttt aacaactaa 439

<210> 15884  
<211> 334  
<212> DNA  
<213> Glycine max

<400> 15884  
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tatgcaagtt gaaagcctta gaggaagag gtatgcctat gtttgtgtgg atgattactc 120  
cagatttacc tgggtcaact ttatcagaga aaaatcagac acctttgaag tattcaagga 180  
gttgagtcta agacttcaaa gagaaaaaga ctgtgtcctc aagagaatca ggagtgaaca 240  
tggcagagag ttgaaaaaca gcaggttccac tgaattctgc acatctgaag gcatactca 300  
tgagttctct gcagccatta caccacaaca gaat 334

<210> 15885  
<211> 409

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15885

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atcttaccatt ttccttgtac aagaatctta gaattatcac canatgagac attgtcactt 300

attgttccat caagatccac gaacatgctt ctgtttctaca catatgggtt ctgacaccaa 360

tgtaaaagga tcatgtgttt tcttggctac cttcattacc tccacatgc 409

<210> 15886  
<211> 399  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15886

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tcctctttctc ctttgccttc cgtgcctct ccatgatgaa naatcaccat tgaaggacct 120

cattgaagat caaagatcca gcctccatag aagctccaca agcaagcttc catcaagtta 180

tgaccatttg aatttctega gatcttccgt ggttcaattt cnggcgtctc catatgtcat 240

gtgcctgaat cggacctccg taagaaaath tatgaccatt tgaacttctc tagagcttcc 300

gttgggttaat ttgagcttc tcatatctg atgtgcctga atcggacatc cgagtgaann 360

agtggacaat ttaatttctc agagcttctg tgtcaattt 399

<210> 15887  
<211> 332  
<212> DNA  
<213> Glycine max

<400> 15887

aacagagata tctattctat agatcacat aattataaca atttccatgg ctctttatcc 60

tgtttcagca ctgctgcttg ctaccacgta ctgtgtttta cctatggtaa ccaagttacc 120

ctatataagt gagcaataac ctattataga ccttctgtga gtgatagacc ctacccagtc 180  
 aacattagcg taigccttga tggttcatac tgcggtatct ttgtgttacg agaagacata 240  
 tgcataatgc ctccctcttc agatccgat atactacett taggtagtct tgatagggag 300

<210> 189  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15838

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 gagcaagaga tgcgaagagaa ggccttatga ttctcatgag ccttanggta gattccagac 180  
 ccattgggcta agtacaagcc cacttatctg tgtacatatt agattaatgg ttcattatct 240  
 ctgggngttg tatttatggc tccataatgt angtagggta ccttagaaaat gtaggatnnt 300  
 tcacccctgt attt 314

<210> 15889  
 <211> 343  
 <212> DNA  
 <213> Glycine max

<400> 15889

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 ttgttgatac tgtgcttgtc atgaatgatg ccataataca aaagaagaag atttttgttg 180  
 aaggaagaca agctaccatg ttggacattg attttcgaac ttatcccttc gttacttctt 240  
 ctatgccatc aacaggcagg atatgcactg gtctaggtat tgcctcaaaag gtagttggtg 300  
 attaatatga gtggtaactg gatatttate tattttcttt tta 343

<210> 15890  
 <211> 249  
 <212> DNA

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<11>      15391
<11>      300
<11>      DNA
<11>      Glycine max

```

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<221>      insure at all n locations
<400>      15391
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actcagctcc	aaactcgaaa	gtggaggaca	cgtgaacagc	cctaagcaat	aacattcatg	180
tgactctaga	aaaggatgag	aatggangat	tgccttgagg	gtcctctctt	angcnatcat	240
ggaacatagc	ttcaaaactcg	aaaatggagg	acacacgaat	gacaatgcaa	ttcattcatg	300

<210>	15892
<211>	436
<212>	DNA
<213>	Glycine max

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<223>      unsure at all n locations
<400>      15892
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nntgtgagca	acaaaggcta	aatgattct	tataacttca	agtctagcaa	catgaacaaa	120
ggtttcagag	aaatctataa	cttntgttg	attatatct	caagctacta	acctagctnt	180
gttgcaact	acttttctct	gttcattcaa	cttggttctg	aagattcacc	ttgttccaat	240
ggctctcttg	ttctctggca	ttggaacaaa	gttccagaca	ttcattttgt	taaaatgatt	300
cagttttctt	tcatttgtga	ctatttagtc	attttctacc	anagctttgt	ctatagttnt	360

aggtingatt canacacatg ngtcttaatg atatctagtt taactccttc ntctaatttc 420  
 agatatatga tcttat 436

<210> Glycine max

<211> unsure at all n locations  
 <212> 15893

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 tttcaaagcc cgtactaagg catacaactc cttatcataa gttgaatagt taagggtagg 180  
 accacttaac ttttactaa aataagcagt tggatggcct tcttgcatac acacagcccc 240  
 aatcccaaca tttgaagcat cacactcaat ttcaaaagaa ttttgaaagt atggcaagcc 300  
 aagtataggg gcattagtta gctnttgcct aagaacattg aaagcttctt cttgtttctc 360  
 tcccatttg aaaccagcat tttcttgag cacttcattg agaggtgctg ccaatgtgct 420  
 aaaatccttc acaaatcgtc tataaaaaac 449

<210> 15894  
 <211> 270  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15894

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 aacaatttca ctagtaacag aagacaagac acgatattca gcttcagtgg atqatttaaa 180  
 atagtggggt gtnctctaga atgcaagaa agaagttggt tcccaaaaa cacaaaagtc 240  
 aqaagtggat cttttggtat caacacaaat 270

<210> 15895  
 <211> 293  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 15895

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ggttgagcgc cgttaagtcg ggtgcgcagat gctgagttgc gtgcgcgcgt tga 240

<210> 15896  
<211> 393  
<212> DNA  
<213> Glycine max

<213> unsure at all n locations  
<400> 15896

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gaggtgactt tgagcgtttg tttatggagg agtcgagtc aatttctgat tatttttctc 120

gagtattggc cgtagtcacat caacttaaaa gaaatggtga agatggtgat gaggtgaaag 180

tcattggaaaa aatacttcga acttttaaac caagctttga cttcattgtt accaacattg 240

aagaaaaaaa ggatttatag accatgacta ttgagcaact catgggttcc ttacaagcat 300

acgaagaana acaaaagaga anaattaaac anaaggaggc tacngagcaa ctactacaac 360

tcaacgtaaa ggaagcattc tatgcaaatt aca 393

<210> 15897  
<211> 239  
<212> DNA  
<213> Glycine max

<213> unsure at all n locations  
<400> 15897

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ccaggttgaa gaaatcctcc aaatctgaga tgggcaattc ctccacaana acagcagcct 120

gtccctcctt tccaaaatgt tgttggtcca agcaagccat atgttctctc tccaatatag 180

cagcagcaac tccagcagtc acaataaaga caacaagcaa ctgaggctcc tctcaatc 240



<210>	15898
<211>	437
<212>	DNA
<213>	Glycine max

<210>	15899
<211>	385
<212>	DNA
<213>	Glycine max

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atataaagtt gattttatttg ttaaaaaaat cctaaattcg attatgatat tgatttgaaa	180
tatttttcat taaaaatgat aattaatctt ttttaccaat aaaattttatt ttataccttc	240
tgggtaaaact atttgattaa gatagataga ttattaccac ttatataaat cgtttttatc	300
ttaaaaatca tatatttttg tgagtaaatg tattttttaa gagtaaataa taatatatgc	360
caaaaatata taatactatt ctcta	385



gattgtttga atgtttctttt ataaagaatc taaattgtta taattctaca caattaacaa 240  
tatagaattt taatttcttt ctaacaagtg agaaattgac attctctctt tgatcaaaga 300  
gccttaaaaa atatgtgcgt aatttcttta atacc 335

<223> unsure at all n locations  
<400> 15903

agtttcacat ggagctacat cagaatggtc ttaaagtgtg ggaattgtgg tagtgctaag 60  
gaaagtccea cttgagagga gaaggtagaa agattgcttg agaagaaaag ctctcttaat 120  
attctctttt cgttggacta gctcatctag gtccctatat ggaaggagtt caaccttgtc 180  
ctccacttcc atattaagcc cactaaggaa cctagctatg cttgtttttt ccaactccct 240  
aagtcacgtc cttaaaagga gtagtccat ttgttgtcta tattctttga cactcatact 300  
tcttttgtcta agccttttga gcttgccat aagctccctt tcatagtang agggaatgtg 360  
ctcttctcta agggcattct taagatcatt tccatacttt actggangat ccccatg 417

<210> 15904  
<211> 481  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15904

ctataatact cagctttatc aagagtttta ctctctggta atcgattacc agtggcaagt 60  
tntgttttca aaaagctntc aactgaattt acaatgttcc aatcaatttc aaaatggtgt 120  
aatcaattac aatatatttg taatcgatta ccagtgtgtt tgaacgttga aattcaaatt 180  
caaatgtgaa gagtcacatc ctttcacana aatgcctntgt gtaatcgatt acaatgattt 240  
ggtaatcaat taccagtgat aaattttgaa taaaaatcaa aagatgtaac tcttccaatg 300  
gttctcaagt tttctaaaag gttataactc ttctaatggt tctcttgacc agatatgaag 360  
agtctataat agcaagacct tgaactgcat ttaagaatca ttctaacaat tatacaatcc 420  
ttatactctt tgaactcttt gacatcttct ttctcttctt ttgaaaagtt tctaaaagtt 480

ttgttgaacg	ctggcgcgag	tggcgatg	tggttcgacg	ccgcatg		120
tytttaacct	cctgctgtgt	ctattccatt	gtggacaagt	gcatacaagt	aagtatgtgg	126
atgcttcccc	agttattcgc	ctctcggtag	ccaaaggctc	taatgaagta	tgtngataac	180
actgtcgtcc	aggaagacct	tgttagaatt	aatgtctcat	gtgagaggca	tgtgacttta	240
tgtaggacta	ataaataaat	cattaataat	taacgactaa	attgttattg	tgtaaaatag	300
agaaccttct	aaacytaact	gttacttgat	ggaagtagtg	ggtgtanaag	gggttaatac	360
ccactaacct	gaaacaaaagt	cccttctgac	acaagtgctc	ctctatc		407

```

<400>          15906
agctttttctc ttgtggagac ggcgacaaat atcggttggg acatggaaac aaggaaacgt    60
accttcaacc aacttgtgtc tctgcaetta tcgagtataa ttccaccag atagcatgtg   120
gacacaccat gactgttgct ctcaactacat ctggtcacat tgttactatg gyaagcaatg   180
aatatgggtca actatgaaac catctgggtg atggaaaagt acctatccta gtacaagaca   240
agttgggtggg tgaatttgtt gaggtaatat catgtggatc tcacatgtt gcttgcttgt   300
catcaagaag tgaattgtat aactggggga caggtgccaa tggaagattg ggacatggag   360
acatagagga ta                                     372

```

600

<400> 15907

agcttcccaa gttnttaagt tcttctcaa aactgtccta agcaaagttc ccaaagtcct 60

attaadaact tccgtttgcc catcgattta tgggtgacaa gtggttgaaa ataacaattt 120

atggttaatt gtttttaatt tttttttttt tttttttttt tttttttttt agtttctatc 180

atgaadaacc acaaaaatgg aatctctacc attgctttgt tttggcagcc ccaaaaanda 240

<410> 15908

<411> 398

<412> DNA

<413> Glycine max

<423> unsure at all n locations

<400> 15908

tattgctaaa tgctaatacaa tcagcaattc tcacagaaat catctgttcc tgacaatggt 60

agaaaccatc agaccatggc catatataac tgtgcaagca tgatagaaaa caaattataa 120

aactattaga aatgaatgag gaagtttgac aaaataataa gacaaatacc ttttcattgt 180

atatacgaag cctttctttg actactgctn tagtatcacc tgaccgagta atgagctttg 240

acatacagtg tgcaggagga agaagtggag ccattgaccat tccaggaggg ccattctcac 300

tcttgatgct aatggaggga atattaaaaa tctcttcaca ttgattacaa attctctcac 360

caagggcatt tgcaagcagt gcttcttctt ggagcttc 398

<410> 15909

<411> 413

<412> DNA

<413> Glycine max

<400> 15909

agcttagact cagttcagcc taccatcctc agactgatgg ccaaactgaa cggaccattc 60

agtcggtgga ggacatttta agagcatgtg ttttatagca gaagggaagc tgggagggtt 120

tctttccatt gaaagagttc acttataaca agagtcttca tcttaccatt ggcattggctc 180

cctatgaagc tttgtatggt agaaggtgta taacacccct atgttggttag agcccgagga 240

atgctctacc ttacgaccag aagtgggaca acataccact gagaaagtta agttaattca 300

ggacaggatg agaactgctc agagtacgca gaccagttat catgataaga ggatgaaaga 360  
 tetggaatto gaggtgggtg atcatgtatt cttgagagtc actccatgga atg 413

<210> 15911  
 <211> 323

<212> DNA  
 <400> 15911

getattacgt gacactatga tactcagctt atagggagtg atgcctatgc tagtgtgata 60  
 actattatta taagctaat ttataaggga taaaaactta tcccaactta caacttcato 120  
 aagaacacat actctaagca tgtcttcaag gttctagatg atctctcttg attgaactato 180  
 catctgagga tgataagcag tgetaaaact tagcttatac ccaaaagctc gctagaatgc 240  
 ttccaaaat ctaagatacc tactaaccac tatagaggtg ggtatgcac gaagcttaag 300  
 tatctcctta ttgtaaatgt ctgctaattt gtccaatttg taggtctcct taattggtaa 360  
 gaagtgaaca gacttgggta gctgtccac aaccacccat atgacctcta gacccaaacg 420  
 aagttttgga aaactgttac aaaatcctt 449

<210> 15911  
 <211> 323  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15911

gattcatggg ttgagctat gcatgatgaa attattgctt tagaaaggaa tcatacatgg 60  
 gtgcttaactg anttactca gaataaaaat gtgatttgtt gcaaattgggt gtacaagato 120  
 aaacataatg tgaatggctc tattgaacgg tataaagctc gcttgggtac taanggctat 180  
 acacanattg aaggctanga ctatttagat actgtttctc tagtagccaa aattactaaa 240  
 gttcggcttt tgttggcact cgtgtctttg ataagtgggt atcagacago ttatgtaata 300  
 atgcaaaactc atttgatctt atg 323

<210> 15912  
 <211> 375

```

-012>      DNA
-013>      Glycine max

```

240 tttttatgat ccagaggcct acttggagtg ggagatgaat atagagcatg tttctcatg  
 280 caactactat gatgaggaac ataaggtgaa actngccgtc acggagtttt ccgaactatgt  
 320 ttttctgttg tggaacaagc tacaatatga gagagcaaga tatgaagagc caatgggtga  
 360 tccatggatg gagat

<10>	15913
<11>	303
<12>	DNA
<213>	Glycine max

```
<223>      unsure at all n locations
<400>      15913
```

tataatatat	tgataagcta	ganattaaac	atcggaagct	ctcgaganat	tcacatggtc	60
atgaattttc	agaagggatgt	ccgattatgg	ogaatcacat	atcgagacgc	ttcataattg	120
aacaacagat	actctggaga	aattcaaattg	gtcataactg	ctcacaccga	tgctcgattc	180
aggcgaatca	catatctaga	cgtccaaaat	tgaacagagg	atgctcttcg	aaaattcaaa	240
tgacataac	ttttaactcg	gatgtccgat	cacgcgcac	acatatagaa	gctcttgaaa	300
agg						303

4211*	15914
4211*	293
4212*	DNA
4213*	Glycine max

<400> 15914

gattgaaacat caggagaggt taatgaaaca acgagatgat ggcctccatg agatgtttgga 60  
tcaaaaggag aatagagac ctaactgaaga agagaggatg aaaaacagga atgattggtgt 120  
tccaaagaaa aacggaattg atggtattaa actcaaacat cctccattta aaggaaaagaa 180

tgatccggag gectacttgg agtggggagat gagaatacag catgttttct catgcaacaa 240  
 ctatgaggag gaccagaagg tgaagcttgc cggcacggag ttttcogaat atgtctct 298

<210> 15915

<210> 15915  
 <211> 15915

attgaataaa caettaattn ttgtctgatt gcattcttatg ttaatcaaaa ctatgtctac 60  
 aacctgttt ctgggtttta tttcagaca atgtggacc ccaaatgca gaggetatag 120  
 taaaaaaatt ccagatggat ggacgttctc tttagatgt ctggtaaaatt ctctgattat 180  
 tcatctgtct ggggttttggc acccttgcct tttgtgtgt taagttcaag attggttgaa 240  
 ggatatttga taccctgcta tcatggaggt ttgggacacc aatgatggaa ggttgaaaatt 300  
 tctttgagaa aacaaatcgt tnttgyggac atttgtgtgg atntcttata tgtttctctt 360  
 aatattctct cttatcatg 379

<210> 15916  
 <211> 360  
 <212> DNA  
 <213> Glycine max

<400> 15916

cttgaaagac taccagaata acatctgcta tctggaatct tcttgagag gttgttggtg 60  
 gagaggtcca acacagttag gttactatgc ttccctagct cctcaggaat ctcaactgtt 120  
 aatccgttag accatagctg aagaacctga tgcctatgca aagatgcaac accctttgga 180  
 atcttcccag tgaacttgtt tgagaaaagg tggagaatct tcagcctctg gagcttaacc 240  
 acacgtctgg aaatctcacc cgaaagagag ttatcactta gatcaagaga catcatcttt 300  
 ttgagctcga agatagatcc tggatttgac caettatttg ttttgagag aagagatctg 360

<210> 15917  
 <211> 354  
 <212> DNA  
 <213> Glycine max



```
<223>      unsure at all n locations
<400>      15917
```

<010.	15918
<011.	372
<012.	DNA
<013.	Glycine max

<210>	15919
<211>	415
<212>	DNA
<213>	Glycine max

cagttgatgg gcactccaga atgccccttg acccaccag agattagcta ctctgtccac 300  
aaggtctgcc agtttatggc tcaaccttta gacactcatt ggactgctag gaaacatatt 360  
ctgcactatc tagagggtac tgggtcttat ggtcttcact taacacctgc tgcctc 415

<200> unsure at all n locations  
<400> 15920

agcttctatt ctctatacaa gaatgaagct ctgataccac ttgttagaca agtggcctca 60  
gatatcttaa gaaggggggg ttgagttaag atatcacaaa ctatttcenc aattaaaatt 120  
ttatgtcact ttctattcaa gtgataaatt cctttaacaa tgaatttctt atatattgat 180  
tcggatagag caatttgaat atgattgttt aacaatcctc aataaaggag tttaatggaa 240  
gagagaatgc atactcagaa ttatactggt tcagtcacac ccttgtgctt a 291

<210> 15921  
<211> 342  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15921

agcttggaac atacaatctg aattntaggt cctcttaagg acttagtcaa aatattctgt 60  
ggctgatcat tagaaccaat gaactcagtg acaatctcct tggacagaaa cttctctcga 120  
atgaaatgac aatcaatctc tatgtgetta gtcccttctc gaaaaactgg gtttgaggca 180  
atatgaagag cagcctgatt atcacaatac aacttcattg gcagctcttc aaaaaacctc 240  
aattcctgca gaaactgttt aatccacatg agctcacaag taaccatagt catagatcga 300  
tattcagctt ctgcactgga ccgagcgcaca actgtctgtt tc 342

<210> 15922  
<211> 386  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15922



tcacgatgaa tcttgtcata tatccatgtc ttatcataat gtacaccata gttgagcaat 300  
 gtctcaaaga caaatctcctt atggagttga ttcacaacct anaagaagaa tatgcacac 360  
 tgcctatgaaa atattgaaga tctgaaaaga aaacct 397

<210> Glycine max

<223> unsure at all n locations

<400> 15925

agctntgatg ccttgtgttg atgcattaaa ggtaaacaga ccaaaagcaa taaattaagt 60  
 gcatataggg ctactgacat cttggaattg atacatacgg acatttctgg accatttcat 120  
 acacctttgt ggaatggcca acaatatttt atatcattca tagaagatta ctccagatat 180  
 gcatacttgt ttcttataca gganaattca caatctttgg atgtgttcaa aacattttaa 240  
 gttgaagttg aaaatcaact caacaaaaga ataaagtgtg tcagatctga ccgtgggtgt 300  
 gaatactatg gcagatatga tggttcaagt gaacaacgtc cggngccttn tgcacgttac 360  
 ctacaggaat gtggaatcat cctacagtac accatgtcgg ngtcacctag catgaa 416

<210> 15926

<211> 395

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15926

agctnttgcct acattagctt ctttgcaata aaagtgcatt aaagtagtga aggtagcaac 60  
 agttggaatg atttgcactt caagcatcaa atcaagaacc caaatagcat ttccaattct 120  
 ctttgaattt gcaagccttc taacaataga gctcatagca acattgtggg agctgatacc 180  
 aagtgttttc atttcattct gcagtttcat tgcctctttt atgttttcaa ctctacacat 240  
 gccattgatt aaagtgatat attgtttatt tctaggaaca gaaccacttt ccaacaagac 300  
 ttgcaaaaaca cgtatgggctt tatgaaaatc actagtctca atgagttcat taaaaaggca 360  
 ttgtatgtat ctacattang aataaccata aactg 395

<210> 15927  
 <211> 348  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations

```

taagatttga gggtaggacga taaacgaaca acgctaggca accaatcgt ggtgctcat 180
attcaatggg ggaggacgca tgaacaaaac tagggaataa attgatgggt ctccgaataa 240
gatnigaggg tggaggatag acgaacaact ctaggcaatc aatccatggg gttctagact 300
tgatgggtgga gaacgcatga acagcgctag gcaatcaagt catgggtc 348
  
```

<210> 15928  
 <211> 371  
 <212> DNA  
 <213> Glycine max

<400> 15928

```

agcttgaaca ttatctcctt ttgggttcgc aggtttcttc atgcacggaa tccagtgate 60
atctcgatta caatgcaccc aagagaccat atatctaacy ctgggttcaat ctgaccaacg 120
atcgattctg ggcacatgta aaaaggtgtc cctctaaact tgaccttccc atactcagca 180
tttgcattct ctctagtctt ggacaaccca aaatcagcaa tcttcagttg ataccttgca 240
tgatcatcag atgaaggaaa gagaaggatg ttgtccggtt tgagatcaca atggacgact 300
cctttctgat gaatgcaaga aagccctttg agaagcatac gagtgtagac tcttacttca 360
ctatccgata t 371
  
```

<210> 15929  
 <211> 456  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15929

```

ngraattaac atgaatggcc ttcttaatat tacaggaatg tcaatatctt cacaatatc 60
catracaca tagtctatcg ggaagataaa atgtttact ctaaccagca catcttcaat 120
  
```

tactccatat	ggtctggtaa	tggagcggtc	agcaagttgt	aaagtcctct	tagtgggcat	180
gattcccaac	tctcccaacc	tntgcacat	ggagagtggc	attaaattaa	tactgggctc	240
caggctcata	agagcccttc	atcacgtgac	ttctccaat	gaacaaggaa	tagttacact	300

4210>	15930
4211>	435
4212>	DNA
4213>	Glycine max

tttagagagct ggcctctcttc atgctcttca aattctctgtc tgtatctgat tcatcacag	60
gttttccagg agagaagact ttgagaagcc cttgaaccag gcttggtgca aagtccttgt	120
acctttgatg aagcaaagaa cagatcttcc caaaaagaag caaatgattt aaggtaacat	180
catataaaat atagaaacag cttcaaatgt gtagaaaaca gggggactgc aaagcccata	240
cctgaactgc agcttgtata tcagaacttc taagcttggc atcacatata gcagccacag	300
cttcaactgac aaatntgctt aagttgacac ttgcgaactc gtccatcaga gcttcaagct	360
gctcttcatt aatctgcttc agtttcttaa taacagcagt ggtgcgctta atgctagaat	420
ccaatgtccc ttaaa	435

```
<223>      unsure at all n locations
<400>      15931
```

ccgaagttaa agtatgacca tntgaattgt cgacagctt

279

<210> 15932

<211> 400

<212> DNA

<213> Glycine max

ttttagaatt tctaaagggtc ataaccttcc acaaggaggt ctgattccgg cacataatat 60

attgagacgc tggaaattga acaagggaag ctctcgagaa attcgaaagg tcataacttt 120

taactcggat gttcgattca agcgcataat atatcgacac gttcgaaatt gaacaatgga 180

agctcttgag aaattcaaat ggtcataact ttctactcgg aggtccatt caggtgcac 240

atatatcgag atgctcgaaa atgaacaatg gatgctgctg agaaattcaa atgacataa 300

netttcaact cgaggctcga ttcaggtcca tcatatctg agacgtcga aattgaacac 360

cgaagggtgt cgagaaattc aaaaggtcat aacttttaac 400

<210> 15933

<211> 341

<212> DNA

<213> Glycine max

<400> 15933

agcttctagt ctcaattttg agcgtctcga tatattaccc gattcaatcg gacatccgag 60

taaaaaagtta ttgtcttttg aatttcctac aagcttccgt ttccaatttg caacgtctcg 120

aatatattac aggactcaac ttgacatccg tgtataaagt tattgtcaat tcaattttct 180

cagaacttcg gatctaaatt ttgagcgttt cgatatatta caggactcaa tcggacatcc 240

gagtgaaaag ttattgacac ttgaatttga taagagcttc cagtttcaat ttggagcatc 300

tctcgataaa ttacgacact ctgtcaggca tccgagtaaa a 341

<210> 15934

<211> 322

<212> DNA

<213> Glycine max

<213> unsure at all n locations

<400> 15934





[illegible]

catcatttca tatgtattct ccattggtac ttttctctaa tattcattaa catattcaca 360

tquttygaatg atac 374

```

-010>      15938
-011>      420
-012>      DNA
-013>      Glycine max

```

```
>223>      unsure at all n locations
>400>      15938
```

tattatcata caaaaacttt taacagttac aactttttaat atttgatttt aaaatcttca 60

aaatagtttg gcacagatag aataatcata atcagttagg atgctccatc acaattaana 120

aagaagactt aatggatgga gcaacgtgaa taacaacaaa ttataaatcc aaagatgtgt 180

ttttttgttt cattaaatta gttacaataq tacacttaaa aaaaaagtta caatagtgac 240

taaaatccgc caaatttaag gatcaaaatg ttagcttact cattttcttg ataaaaaatcg 300

ttgactttta aattgaataa aatattaaat taatggaaga atntgtttaa tntgtttgaa 360

tttggattat ctttacaata gtgattaata taaaatcaag attttataac aatgttttac 420

<210>	15939
<211>	452
<212>	DNA
<213>	Glycine max

```

#223>      unsure at all n locations
#400>      15939

```

tcttacatag tccgcctntg ctggaccttt atgcctaaaa atagaaacat tatgcataaa 60

caaaaagatca agatgagtta gtaacattaaa accataaaca acctcaaaaag gagaacgaatt 120

agtagtgcta tgaadaactc tattgtaagc aaactcaaca tgtggtaaac aagcttccca 180  
 agtctttaag ttcttctcct aaactgtcct aagcaaagtt cccaatgtcc tattaacaac 240  
 ttctgtttgc ctatcagttt gtgggtgaca agtgggtgaa aataacaatt tagtgcccaa 300

<310> 15940  
 <311> 259  
 <312> DNA  
 <313> Glycine max  
 <323> unsure at all n locations  
 <400> 15940

tgaatagttc gtccaatctg accatctgtn tgaggatgat aagctgaact aagcttcagc 60  
 ttgttccca aagcttcctg tagactgtc caaaatcgcg aagtgaacct tggatccctg 120  
 tcagatacaa tactagaagg aatttcctgc aaccttacta ctttcttgat atacaactcc 180  
 aogtagcttt ccattctata cctcatattc actgcgataa aatgagcaga ttggtgagt 240  
 cgatctacta tgaccaca 259

<210> 15941  
 <211> 411  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 15941

taacatcaga ccacttcag ggtgctagaa ctacttcaca tggactngat ggggcctatg 60  
 caagttgaaa gccttgagg aaaaaggat gcctatgttg ttgtggatga tntctccaga 120  
 tttaacctgc tcaactttat cagagaaaaa tcagacacct ttgaagtatt caaggagtgc 180  
 agtctaagac ttcaaagaga aaaagactgt gtcataaga gaatcaggag tgacctggc 240  
 agagagtntg aaaacagcag gttaactgaa ttctgcacat ctgaaggcat cactcatgag 300  
 ttctctgag ccattacacc acaacaaaat ggtatagttg aaaggaaaaa caggactttg 360  
 caagaagctg ctaaggcat gctccatgcc anagaacttc cctataatct c 420

<210> 15942  
 <211> 349  
 <212> DNA  
 <213> Glycine max

ttcttaggaa gggaccgaac actagaacca tgagcaagaa ggtctttaa ggtggggtta 174  
 gaggctgtga agaatgccat atggttctca tgaaccttaa ggtagatttt tgaacccatg 240  
 gaccaatgat gggatacaatt atctttgtac atattagact acgaattcat tatactcggt 300  
 ccttgatat atggctccat attgcaagta tggtgcccta aaatatatg 349

<210> 15943  
 <211> 450  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15943

cttttganag aaaatggagg agaaagtatt ttaatagcat gtggacgtgg aagaggacgt 60  
 ggtcgtggcc aatgaagagg aggaagagga gatcgtgata attttgacaa taatgaatgg 120  
 aggagccatc aatccactan aagttgtgga agaggaagag aaagaggtag aaacaattat 180  
 gataaagcat atgaaaggag gtatgataaa tctaatgttg aatgttttaa ttgtcataaa 240  
 tatggccatt actcttggga gtgtagaaca aatggtgaag agaagggtcaa tcttgttgat 300  
 gataaagaag ataaagaagt tgaagagcca gcaactactac tatchactta taatggtgag 360  
 aaggaagaca aatgcttatg gtatcttgac aatggagcaa gcaatcacat gtgtggatgc 420  
 aaagagaaat ntgtggaact tgatgagaat 450

<210> 15944  
 <211> 316  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15944

gactttttcca tatacacctg aacaatatgg tacacctgaa agaaagcata gacattggac 60  
 aaaaactggg ctcactcttg tggcttcage ttctctttct tgaaattttt ggggagagtc 120  
 attcaacact gcagctacta taatcaatta tcttcttca cctgccccta acaatatgag 180

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<310> 15945  
 <311> 421  
 <312> DNA  
 <313> Glycine max

<323> unsure at all n locations  
 <400> 15945

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 acttcacaca tttagacctc tccctagctt ccccttgata atgaggaaaa taccttacca 180  
 ggtttctaaa cctagctgca tactctgcca ccgacatgct cccctctttc gactctaaga 240  
 actccatctc tttctatnt ttcacgtctt ctggaaaata cttctctaga aaagtgtgtc 300  
 tgaaagtccc cgatgggaca atagcaccac ctgctccctc caaacgtgga cgagtgttct 360  
 cccaccagta ctctgctca tctgccagca tgtgattaga aaacaacacc tttttctagt 420  
 c 421

<310> 15946  
 <311> 427  
 <312> DNA  
 <313> Glycine max

<323> unsure at all n locations  
 <400> 15946

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 aacagaataa actttcatat ggattntagt cacagcccaa caattcacca ccttgaasta 120  
 acattcatat aagacacaaa ctgcacccctc caagcatata cgaactcaac cctaacaatc 180  
 aacattgagc aagcttaagc atgatacaaa ctgtctcttt ggaactggct ttgtgaacat 240

atcagcaaga ttgtgcagag tgttgatctt atgaactttg attcttcttt ctgaccgaat 300  
 gaagtgatat ctaacatcta tatgcttggg tctatcatga taaacctgat ccttggccaa 350  
 gcatatagca ctaaggctat cacagtagat gtttagcatat tcttgattaa ttccgagatc 420

<210> 1594  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15947

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 gttcgaagac aaccttcttt ctcccttggg ttgcttgggt agcatagctt ttatttttcc 120  
 ctctcaatttg atctttgact ctctcatgaa gcttcttcac atagtccgcc ttgcttgac 180  
 ctcttttatg cttaaaaaaca gaaacattag gcataggcaa aagatcaaga ggagttagtg 240  
 ggttaaaaacc ataaacaact tcaaaaggag aacaattagt ggtgctatga acagctctat 300  
 tgytaagcaaa ttcaacatgg ggtaaaacaag ctccccaagt ttttaagttc ttcttcaaaa 360  
 ctgtcttaag caaagttccc aaagtcctat taacaac 397

<210> 15948  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15948

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 agtcttcttt tccattgttt attacaaaac atttgctacc aaaaacatga agatgtgaaa 120  
 tgtttgggtt tcaaccattg aacaatttat atgggggttt cttaaaaatg ggtcttatta 180  
 aagccctatt catgatatag catgcagtat taacgggttc agctcaaaaa tatttttgaa 240  
 gaggggtatc atttaataag gttctagcaa ttctcttcaa agacctatnt ttctcttcaa 300  
 taactccatt ttgttgaagg gttctatgtg cagaanaagt atgttcaatg ccatgtcttt 360  
 cacaagataa atcatattct ttattttcaa acctaccccc atuatcactt ctaat 415

<210> 15949  
 <211> 366  
 <212> DNA  
 <213> Glycine max

atggttgggg gatgttgaaa acgagattat caggaataa taattttgaa tgagggaatgt 180  
 aaagggccgt gtgaaacaac ggtcgaattt gctttggttc agtagtgaac gtgctattaa 240  
 tgttatgtga ttogtttggg cacttcaga taccagttagt tgcataaatt tctctagcag 300  
 aacaatgccc aacttgcccc ttcagttttc aaactgggtt gcatacaatg cctttgtgaa 360  
 aataac 366

<210> 15950  
 <211> 445  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15950

tctttgacat ataatggacg agaaagtagt caaaaagcat gttgacgtgg aagatgacgt 60  
 ggtcgtggcc aaggaagatt atgaagagga gatcgtgata attntgacaa taatgaatgg 120  
 aggagccatc aatccactag aagttgtgga agaggaagag aaagaggtag aaacaattat 180  
 gaaaaagcat atgaaaggag gtatgataaa tctaattgtt aatgttttaa ttgtcataaa 240  
 tatggccatt actcttggga gtgtagaaca aatgttgaag agaattgtca tcttgttgat 300  
 gataaagaag ataaagaagt tgaagagcra gcactactac tatcaattaa taatgggtgag 360  
 aaagaagaca aatgcttatg gtatcttgac tatggagcaa gcaatcacat gtgtggatgc 420  
 aaagagaaat ttgtggaact tgatg 445

<210> 15951  
 <211> 269  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations



<400> 15954

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ctatcgagat tgattgcctt ggacgaaaga tgtatgccta tgttgccttg gatgatata 120

tttcttctct ttttctctct ttttctctct ttttctctct ttttctctct ttttctctct

<210> 15955

<211> 273

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15955

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gatataaatg ttctaagcac cttttcaatc accaattggt ccttaatttg ttctccacaa 120

caattcatct ggttggtgag tgtgagaatc ttggtgagat actcaactac tgattcagtc 180

ttctccattg caagaagctc atactatctt ctcaatgtct gaagtntcac cttctttatc 240

ttttctgcaa cttcatgact ctttacaaga atg 273

<210> 15956

<211> 292

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15956

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atttaagtat tcatattaat atagtattgg ttaaaaaatt aaataaacat tgatttgaat 120

gcaatttaca aattattaga tatattatca atccttaaac caaataaaaat ataaattaaa 180

ctacattata ctatgatata tnncaataat tetattaata ttgatcacta ttgctaacaa 240

tngatttact gctatatatt tgatattgat accatataat actaattacc ta 292

<210> 15957

<211> 270

<212> DNA



<213> Glycine max  
 <223> unsure at all n locations  
 <400> 15957

agcttgaatg accatttgat agccagcttg gacatgccaa aggggtgccat aagtaggttag 60

aatatntacc atccaaanaa aggagagata 270

<210> 15958  
 <211> 269  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 15958

agctntgaat gcactattca atggagttga caagaacatc ttcagactga tcaacacttg 60

cacagtggcc aaagatgcat gggagatcct gaaaatcact catgaaggaa cctccaaagt 120

gaagatgtcc agattgcaac tcttggctac aaaattcgaa aatctgaaga tgaatgagga 180

agagtgtatt catgacttcc acatgaacat tcttgaaatt gccaatgctt gcaactgnctt 240

gggagagagg gatacagatg ataagctgg 269

<210> 15959  
 <211> 300  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 15959

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gatatcttaa gaaggggggg ttgaattaag atattccaaa ttaacttcccc aattaaat 120

ctatttcact tctactcaa gttataaath tctttaacaa tgaacttctt aaatattaat 180

tcaataaaaa acaatttgaa tataaatata aagcaataat aaacaaagga gtttaaggga 240

agadaaagtg caaactcaga attatacctg gttcggccaa acccttgtgc ctacgtcaag 300

0400 > 15960

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<L11>      409
<L12>      DNA
<L13>      Glycine max
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<400> 15961

<210>	15962
<211>	364
<212>	DNA
<213>	Glycine max

<400> 15962

6722

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 cttcagccct tgtgtttaag ggcacctaata ctagtctctg cattaggggt atgttagtaa 300  
 ttccacatgc actaagtggg catttgaggt ggtgggaag aaattaaatt aattgagttg 360

<211> 111  
 <212> DNA  
 <213> Glycine max

<400> 15963

tcaacattca atttcgaggg tctcgatata ttactgtact caatcggaca tccgagaaaa 60  
 aagttattgt cactgttatt tgcacagagc atcaacattc aatttcgagc gtgtcgatat 120  
 attcagggac tcaatcggac atccgagtaa aaagtatttg tcttttgaat ttgtcagag 180  
 cttccgtatt caatttcaag cgtctcgata tattacagga ctcaatcaga catccgagta 240  
 aaaagttatt gtctgttgaa ttgtctcaga gctttgggat tcaatttcga gctgttcaat 300  
 atattacagg actcaatcag acattcgagt aaaaagttat tgtcgttga acttgcctag 360  
 agcttccgca ttcaatttcg agcg 384

<210> 15964  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<400> 15964

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 ttgatggggc ctatgcaagt tgaaagccct ggaggaaaga ggtatgctta tctgggtgtg 120  
 gatgatttct ccagatttcc ctgggtcaac ttatcagag agaaatcaga cacttttgc 180  
 actgtcaagc acttcacat cttcgggaagt ccattgttaca ttttggcaga tagagagcaa 240  
 aggagaaaga tggatcccaa gactgatgca ggaattattc tgggatactc taaaaacagc 300  
 agagcatata gactattcaa ttccagaacc agaacagtga tggaaatccat caatgtggtt 360  
 gttgatgato tctctccagc aagaaaagaag gatgtcgaag aagat 405

<210> 15965  
 <211> 361  
 <212> DNA  
 <213> Glycine max

<400> 15965

.....  
 .....  
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 aatgcagtcg atcgataagg ttgcaattgt agttgcaatg tgaatgcaga tattcctaata 240  
 ttgttttgtt acatacattt atatctaggt cttcaaagat gtggaaagag ttgcatgctg 300  
 aggtggatca attacctcaa gccagatata aaaagaggaa actttatcat ggatgaagac 360  
 c 361

<210> 15966  
 <211> 349  
 <212> DNA  
 <213> Glycine max

<400> 15966

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 cgggtaataa aacttttttg tattcctttt tactcaatct atgaattgag gttttaaatt 120  
 ggggttgcaa atacattcta gatttgtgat gatccttgat attgtgggac attgtacaca 180  
 aatgcagtcg atcgataaag tagcaattgt agctgcaatg tgaatgcaca tattcctaata 240  
 tgtgcttgcc acatacattt atatctaggg ctgtaaagat gtggaaagag ttgcatgctg 300  
 aggtggatca attacctcaa gccagatata taaagacgaa acttcatca 349

<210> 15967  
 <211> 352  
 <212> DNA  
 <213> Glycine max

<400> 15967

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 atgctagttg aaagccttgg aggaaagagg tatccctatg ttgttgtgga tgattctctc 120  
 agatttacct gggtaaaactt tatcagagag aaatcagaaa cctttgaagt attcaagag 180

ttgagtcctaa gacttcaaag agagaaagac tgtgtcatca agagaatcaa gaggaccat 240  
ggcatagaat ttgaaaacag caggttcaact gaattctgca catctgaagg catcaactcat 300  
gagttctctg cagccattac accacaacag aatgggacag ttgagaggaa aa 352

<110> Glycine max

<400> 15968

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aagttattgt cgtttgaatt tgcacacaga ttcaacatcc aatttcgagc gcttcgatat 120  
attaagggaac tcaatcaaac atccgagtaa aaagttattg tggtttgaat tggctccgag 180  
cttcaacatt caatttcgag cgttcgata tgttaacgaga ctcaatcaga catccgagta 240  
aaaagctatt gtctgttgaa ttgtctcaga gattcaacat tgaatttcga gggcttcgat 300  
atcttaacggg actcaatcag acatccgagt gaatagttat tgtcgtttga attggctcag 360  
agcttcaaca ttcaatttcg agggcttcga tatattac 398

<210> 15969

<211> 352

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15969

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gtaaaatctc ttgaactagg aagatgttgt ccatcatctt tctgttctta atgaaaccag 120  
tttgagtttc tccaataata gtctcaagca ctagggtat gcgattgacc aaaattttag 180  
atacaatctt gtataacaaa ttacagcaag atatgggtct aaaatgggta acctgngagg 240  
cttgatcatg cttatgaata agcgcaataa tagcatgggt gagctgcttt agaatttttc 300  
tagttgtata gaattcatta accgttgcaa atatatcact accaatgata tt 352

<210> 15970

<211> 431

<212> DNA



actgctagtt tcaggccaca actgattatc caaacaataa tgaacaaaaa actttgaaac 240  
 atacctgacg caagtcaagc ttcattaaca ccattgccaaa agtagcaact ctccgatcag 300  
 atcagctagt cg 312

<210> 15973  
 <211> Glycine max

<400> 15973

ctaaaagatt ggctaagatt ttgttaacac ataactcactt agactatgaa ggagagctgg 60  
 agttgctgca catgatgtcc aacgttatat caaggaaatga gatcgggctg cacaatgctc 120  
 aacgctagat gaactgtcac atgaagtatt gaagctgcac gatccacgat gtctaataca 180  
 atgtcctgac atgctgcccg ataatactgg acttgcctgt caatgcaaga tataagtcaa 240  
 gtgctgaact gaagttgcat gatccacgac gtctgataca atgtcctgac atactgcccg 300  
 aaaatactgg agtcgctgtt caatgcatga ttacagtcca gtgcataaatt gatgctgcat 360  
 gatccacgat gtcagacacc atgtcctga 389

<210> 15974  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<400> 15974

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 aatgccagac aaaattagtg gactttaatt tetaatttaa tttatctgga ttgtcttggt 180  
 aactccctgc acgaaacaat cccatttat ctggatttgt ctgggaactc cctgcacgaa 240  
 acaattcccc aatggtgctt ttctttgtca tggttgttac gcttatctct ttacygaaat 300  
 cagcttacag gaccaattgg tgaattctct tcttttctct tgtattatgg tgcctctct 360  
 tataacaagc tacaaggtaa tatcccaact caat 394

<210> 15975  
 <211> 314

<212> DNA  
 <213> Glycine max

<400> 15975

atctttctgc ctgcttctac ctgcaatttg atttagatga atatccagac aatgagcaat 60  
 .....

ctatgtgttaa tatcacaga actccaatgg gaaatgaatt tcaaccttat tctttctccc 300  
 cagaaatggg tata 314

<210> 15976  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15976

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 atgtataacg tcacgggggt gaatgaataa actgaattaa tattataaaa ttgggttttg 120  
 taattttatt gtctacataa aattacaaca ccaaattttt agaggatgcg atgtaaagaa 130  
 gtttttgaat ttgatggac gatgtaaaga agtttgtttt attaagttgt tgaaactcaa 240  
 atgtttgcat tgtaaaaatt gtcaaaactc attgttatta aacttttact taaattactt 300  
 ggtaaacgaa aatgtataaa tggttaattg tttccttaat aacgaaattc tatttggttaa 360  
 atttaatagt atatttattg aaggaaattg tattact 397

<210> 15977  
 <211> 347  
 <212> DNA  
 <213> Glycine max

<400> 15977

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 aaaaagaagg ctctctaaag cactgtgtct aactcttctt aactttctta aaactttga 180



gctagaatgt gatgcctctg gagtgggagt tggagctggt ttgttacaag gtgggcaccc 240  
tattgcttat tttagtgaag aacttcattg tgccaccctt aactaccta cctatgataa 300  
agagctttat gcttaataa gagcactccg aacttgggaa cattacc 347

ttcatgactt gcaatcttct tatagaatgg tgacttatac gaaaatgcca caaatctata 60  
gggatgacat tacatcttgg atgggtaatg ggggagcata tggatcttga atgtgatggg 120  
ttcaaggtaa gctgataaag cccatgactc acttcaactg taccatctt cgttttgggtg 180  
ttgatctctt gcaaaacaca agtattagag gagaagatta actcgtagct gtttggggaa 240  
atgagtttgg atatggatat gagattaaag ctaaaagaag gtatgtatag aacatcttct 300  
aatgtaattg aagaggtgag atggacgggt cccgagtggg tggcatgaac ttctgttcca 360  
tttggttaact taactagaat gggtttaat 389

<210> 15979  
<211> 400  
<212> DNA  
<213> Glycine max

<400> 15979  
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ttttgaaatt caaactgaaa agacatgact cctcaaaaat taattgtgta atagattacc 180  
acagatctgt aatcgattag cagtgagaaa atttcaaaaa taactctgaa aagtcacatc 240  
tcttcataag tttttgaaaa gccaccaaag gcttataaat atgtgacttg tgttcgaaat 300  
cttgagaggt tttttagaac ctcatgtct tattctctca taagaaaacc ttgggcacac 360  
cactttcaaa acaattaagg attcatataa gttcttcaag 400

<210> 15980  
<211> 400  
<212> DNA



attaacaccc ggtggattga ttctggatct actattcata ttgcaaattc tttacagggt 240  
 atgcaaaaacc taaggaaacc agtgggaagt gagcaaaagca ttttatcagg caataagcta 300  
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 atttttgaatt ttttttgaatt ttttttgaatt ttttttgaatt 420

<20> DNA  
 <210> Glycine max

<400> 15983

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 atgaagttcc aacatgataa tctgtttgtt gtgggtgatg cccgaaacac ttgaataccc 120  
 tttatgatag cttcacactt gcagtacatg tcaataatta ttgtgagaac aacgacattc 180  
 aactcaaaat tccccctttt acataatcat gaacccactc cccatgttga agtgcaccta 240  
 agtgagcata aacacttaac aaactcatca ctgtaaattc actaagctga acccttcgtc 300  
 tctgcattct ggggaaaagc tccaatgctt ccataagccg tttattcctt acatatccac 360  
 taatcata 368

<210> 15984  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<400> 15984

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 gagtctaattg ccattcttcc aaggaaggat ttttttagatg atatttcaga ttccttagaa 120  
 gatacacata ttcattggaaa tgactctaaa gaaaaagatg aaggaagcaa tgaagattct 180  
 caagataatg gagttagaac aaataatgaa cttccaagag aatggaaagc ctcaagagat 240  
 catccctctg acaacattat tggatgata tcaaaagggg taacaactag acattctctt 300  
 aaagatttat gcaataatat ggtttttgta tctatgattg aacctaaaaa tataaaagat 360  
 gccataatag atgataactg gatcattgct atgcaagaag aac 420

<210> 15985



taattgtttt ttctgatgca ggagtgggtga tgtagaggac aacaaaagca ccactggata 240  
 tgtcttcaaa ttacttggat caacaatctg ctggagtctt aagaaacaag aagatgttgg 300  
 acattcaact tgttaagtac agtaaatggt tgcctgtctta tcagcttgac aattagcctg 360  
 . . . . .

<210> DNA  
 <211> Glycine max

<400> 15933

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 ctttaagtga gatgtccaaa tcttggatgc catattttga ctctatcttc tttggaggat 180  
 agacatgttg aggagtaact ggttctctga ggtgtccata ggtaacaatt gtcctttgat 240  
 ctgctgcctt tcattagaac ttcactcttc tcatttgta ccaagcattc tgaatttgtg 300  
 aagtttacat tgaatccttc atcacacaac tgactgatgc tgatcaagtt tgcagtcagt 360  
 cccttcacca gcagtacttt gtccagacta ggaagt 396

<210> 15989  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<400> 15989

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 aaaaataaac gcataaaaac cctaattgac cagaaaattt caggaaaaaa aaaaacctac 120  
 caacacaacc ccatctttgc acttgatccc aataacagtc ctgcaacaaa gtttcaaatc 180  
 taagatcact accaatacaa aaattacaaa atcatttaaa aaaaaaaaaa atactcataa 240  
 ttattaaata aactcttttt tccaatttta aaaccacgaa tttaaaagta taataataat 300  
 ataataata ataataataa tgataagta caaccgctg ttgtcgacgg cttagcgggc 360  
 atactcgatc tggaaaacgc ggcctcagc ggagaaag 396

<210> 15990

<211> 348  
 <212> DNA  
 <213> Glycine max

<400> 15990

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 aggggtctcc atattgtcatg tgcctgaatc ggacctcctg aagaaaattt atgaccattt 300  
 gaaatctctc agagcttccg tagttaattt cgagcttctc gatattctg 348

<211> 15991  
 <211> 382  
 <212> DNA  
 <213> Glycine max

<400> 15991

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 tgetgccccaa gttatcatggt ctgacaggtg aagatcctca taagcatctt aaggagttcg 120  
 atattgtctg ttccaccatg aagccccctg atgtccaaga agatcatatc tttctaaagg 180  
 cttttcctca ttctctagag ggactggcaa aatattgggt gtactacctt gctcccaggt 240  
 ctattttcag ttgggatgac cttaagaggg tgttcttgga gaaattcttc cctgcatcta 300  
 ggaccactac catcagataa gacatttcaa gcatacgtc acttagtgga gaaaacttgt 360  
 atgagtactg ggaaagattc aa 382

<210> 15992  
 <211> 363  
 <212> DNA  
 <213> Glycine max

<400> 15992

atcttcataa ggcccttgtat ggtttgaat aggtctccag agccttgaac aagagaacag 60  
 atactttctt cttacaagtt ggattcatga gatgcactac tgaatatggt gtgtatgta 120  
 aaagagaaaag tctttcagac atcttcatag tctgtttata tctggacgac ttgttgataa 180

caggaaaaga tttcaatgct atctcgacat ttaagcaaga gatgaaatct gaatttgaaa 240  
 tgcagatct tagagaatta tcatatttct tgggcataga gttcaagagg acaaaggctg 300  
 gtttttttat ggaacaaagg aaatacacia ctgatyttct aaagagggtt caaatgtttg 360

<210> 15993  
 <211> Glycine max

<400> 15993

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 aactccttggt cttcccttct atgtatttgg ttatcgctga ttggtctgaa ccggttctct 120  
 ctttcagaat cgcattcgcc ttgctatca ttacagaat aatcaaatca aatacaattg 180  
 gaaaagaaat aaactaagag aattgatttt gaaggagagt attttgggaa agtaccacgg 240  
 cgaagggagg gtgggagagg ggcttcttgg acgacgcctt tttcttggcc ttgggttgct 300  
 atgoggtaga catgatgatg gcttgattga aactcaaac gaaaaaggag taacogttgt 360  
 tgaattgaa acaagagata gatagaaatt ctgagagaga g 401

<210> 15994  
 <211> 345  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15994

agcttcaaca tcagaccact tccaggtgct tggaaactact tcacatggac ttgatggggc 60  
 ctatgcaagt tgaaagcctt ggaggaaaga ggtatgctta tgggtgtgtg gatgattct 120  
 ccagatttac ctgngtcaac ttatcagag agaaatcaga cacttttgaa gtattcaag 180  
 agttgagttt aagaattcaa agagaaaaaa actgtgtcat caagagaatt aggagtgaac 240  
 atgggagaga gtttgaaaaa ggcaagtta ctgaattctg cacatctgaa ggcacactc 300  
 atgagttctc tgcagccatc acaccacaac anaatggcat agttg 345

<210> 15995  
 <211> 393

<212>	DNA
<213>	Glycine max

[illegible]

<400> 15996

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aggaaaagaa cagaattggc tttgtacatt ttgcagacag gtcaaatgct atgaaagcac	120
tgaaaaaacac tgaaagatat gaattacaac gtaacatatt gtccagcctt ttgtggttat	180
tttatgtgaa tgttgggtcaa taatatTTaa ggtttgttct acgtttcagg tcaactttta	240
caatgctctc tggcaaagcc acaggctgat caatagtctg gaggatcaaa cacacagaag	300
ccaggaccag gattgcttcc aagctatcca ccccatgttg gttatgg	347

<110>	15997
<111>	324
<112>	DNA
<113>	Glycine max

430 15997

agcttctgtc	ctttgctaac	tattggactg	aatctcggtc	egggaatta	aaaagatggg	60
actgtacctg	cagaggaaga	gggtctcttc	gaggggcag	cagaggtcg	attcctggtg	120
gtccaagccc	tgcgaagatc	cacagtgttt	tccggggcag	tcatgcggg	tgcctcaata	180
caggtaactt	tgaagggtt	gttctcttcg	tccgtgaaag	aagtggctt	tgcagacgtt	240



ggcggaaaga agagaggaga acaggaagag aagcgcaatc gctgtcactg ctgccgcgag 300  
gagcagaatt cgggatctcg cgga 314

111 112

113 114

tcaagaataa tggcctcagc atgggtgctg gaaatactac aatagagaaa cctagagaag 60  
agtggctctga agatgaaaga agattagtgc agtacaattt aaaggcaaaa aatattatta 120  
cttttgcctt aggaatagat gaattattta gggtttcaaa ttgtaagagt gtcaaggata 180  
tgtgggacac tttaacaagt acacatgagg gaacaactaa tgtcaaaaga cctaggataa 240  
atacttcaac tcatgagtat gaattattta gcatgaagac aatgaaagt atacaagata 300  
tgcagaaaag attcacacat atagtttctc atcttgcctc attaggaaga acttttcaaa 360  
acgaggatct cataaataaa gtgttaagat gcttaagtag agaatggcaa ccaaaggtaa 420  
caaccataac agaattctag 439

<210> 15999  
<211> 442  
<212> DNA  
<213> Glycine max

<400> 15999

agcttgtatg agtactggaa aagattcaag aaattgtgtg caagctgtcc tcaccaccag 60  
atttctgagc aactccttct tcaatatttc tatgagggac tttagcaacat ggagaggagt 120  
atgattgatg ctgccagtggt tggagctctt ggtgatatga cccctgttga ggcctaggaa 180  
ttgattgaga agatggcttc taactcctaa caatttagta caagaaatga tgcatttgtt 240  
cttagaggag tccatgaggt ggccacgaat tcatcttcat ctactggaaa taaaaagctt 300  
gatgccttgg tcaacctagt aactcagctt gccatgaata aaaaatctac accttttga 360  
agagctgtgt gtctatgttc tctgcagat caccatadag atctctgttc tctcttatag 420  
caattctagc tcaatgagca ac 442

<210> 16000  
 <211> 447  
 <212> DNA  
 <213> Glycine max

<400> 16000

taattttttt taattttttt taattttttt taattttttt taattttttt taattttttt 120  
 tttagatttta gtatcccata aacacttata acaggtcaag gcaccatttt tattgatcga 240  
 aaagtgggttc aatatgtcaa ttctcaaaat attaagttag taacttatac cccttattat 360  
 gctcaagcaa atggtcaagg tgaagccata cacaagaatt tggtaagggt aattaagaaa 360  
 tatggccaaa aacctagaag tttagcatgaa agtttagaac aaattctcta tgcttatcaa 420  
 aattcaacaa aagggggcca ctattgt 447

<210> 16001  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<400> 16001

tatcaaacat tagtcataaa gtgataagga ggtgatttct tcaaatagat cattagcaga 60  
 aaagaataat aattgttcac acttcacagg aaacaaaagc tatgaaaagg actgaaaatt 120  
 taaacagcag aatgagtttg tacctgtaca aacttggcaa agccagaccc aagaggggat 180  
 ccaatgtaca gagccattga agctccattt agcaaggatg cgtatactag ccattggccc 240  
 atcatccgto caagattagt gggccagcac actacatcac ctttacgaac gtccatgtgg 300  
 caccatgcac ctgcagcagc ttttagagag taatattggt ccattggaatt gcccttggat 360  
 caactatacc accaaatgag gtacattata ttagcttttg gctagcttca tatggtgagt 420  
 gaagtcttgg tat 433

<210> 16002  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<213> unsure at all n locations

<400> 16002

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gaggttggc cttctcttgc cttctcttgc cttctcttgc cttctcttgc cttctcttgc

ttctcttgc cttctcttgc cttctcttgc cttctcttgc cttctcttgc cttctcttgc 360

ttctcttgc cttctcttgc cttctcttgc cttctcttgc cttctcttgc cttctcttgc 420

ttctcttgc cttctcttgc cttctcttgc cttctcttgc cttctcttgc cttctcttgc 480

<410> 16003

<411> 436

<412> DNA

<413> Glycine max

<400> 16003

agcttttaggc taatataaac gacaataact atctactcgg atgtctgac gagtcccgta 60

atatatcaag acgctcgaca ttgaatgttg aacctatgag ccatttcaca cgacattaac 120

ttcttaactct gatgtgtgat tgaatcccg tttatatcga gacgctcgaa attgaatgtg 180

gaagctttac gcaaattcaa actacaatga ctttttactc agatgtttta tcgactccag 240

taatatatcg agacgctcga aattgaatgt tgaacctatg agccaattca tacgacaata 300

actgtttact cggatgtctg attgagtcct ataatatatc gagacgctcg atattgaatg 360

ttgaacctct gatccaattc atacgacaat aactttctac tcggatgtcc gattcagtgg 420

tgtaatatat cgggac 480

<410> 16004

<411> 435

<412> DNA

<413> Glycine max

<423> unsure at all n locations

<400> 16004

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aggagtaacc tacagtaata acaaatttat tcatgaatat atcattccaa ggcctattat 120

ttctcagcaa acttattcac cattagaaac aaagaggatt tacctttctc caactatgac 180

aaagaaattc attcacagct atagcattct gtccatacat cagtgggtgag gaccagtaac 240

ttccatacaaa ccaattgtgc acattctctg gctccanagaa cagaattctc atgataaagg 300

ctctcagcaa acttattcac cattagaaac aaagaggatt tacctttctc caactatgac 360

ctctcagcaa acttattcac cattagaaac aaagaggatt tacctttctc caactatgac 420

<210> 16005

<211> 400

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16005

ttctcagcaa aagggcatgca aagtgggtgg aattccataga gcaattccct tatgtttatca 60

aacataaaaa gggaaaaggt aatattgtag tcaatgatct ttctcggcgt catgcattac 120

ttctatgct tgaacaaaaa ttgattgtgc ttgaatgttt gaaaagaatg tatgaaaatg 180

atgaatcttt tggagaaatt tttaaaaatt gtgaaaattt ttcagaaaat ggtttcttta 240

gacatgaagg ctttcttttc aaagaaaaca aattgtgtgt gcttaaattgt tctactagaa 300

atgtgcttgt ngtgaagca catgaaggag gtttaatggg gcattntggg gtccaaaaga 360

ctctagaaac attacaagaa cattnntatt ggctcatat 400

<210> 16006

<211> 431

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16006

tgtgggattg tgtgatagtg attntgcggg agatgtttat gatagaaaaa gtactaccgg 60

atttgtattt ttgtgggtg atttgttctt tacatggagt tctaagaaga aaggcattgt 120

gacactttct atttgtgaag ccgagtatgt agctgcaact tcttgacat gtcatgccat 180

ttggctaaga agattgttgg aggaacttca gtgtttcaca aaggaaagca caaagatcta 240

tgttgataat agatctgcac aagagcttgc caagaattcg gtgttccatc aacgaagtaa 300

gcataatagat acaaggtatc atttcattag agagtgcatt accaagaaaag aagtagaatt 360  
 gactcatgtg aaaactcaag atcaagttgc ggatattttc accaagcctc tcaaatttga 420  
 ayagtttoga a 481

<210> Glycine max

<223> unsure at all n locations  
 <400> 16007

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 attaaactct ganaagccag gaacattgaa ccttgaccaa agattaaata tcatgattga 120  
 tgttgcttct gcaatacatt atcttcatca tgaatgtaag gagtcgatta ttcattgtga 180  
 tttaaagccg agtaatgtac ttcttgatga tgatatgact gctcacgtga gtgattttgg 240  
 ctttaacaaga cttcttttcaa ctattaatgg tgccacttct aagcaaacia gtacaattgg 300  
 aataaagggg actgttggct acattcctcc aggtatgttc taaactccca aaaaattggt 360  
 tctttgattt cttccctttt gatgaaaaac tgatatnnta ctaactacaa gtatggggga 420  
 atnnttctat at 482

<210> 16008  
 <211> 434  
 <212> DNA  
 <213> Glycine max

<400> 16008

tcacacaatt ttttttttt tatcaaaactt gagttttgga aaaccaatta ctaagacttt 60  
 cctaactaga tgatttaaatt gatgcatgtt aatatgtgca gccctatgat gccacaatca 120  
 tgaatcatct atcttactca ccaagcaact tagctcatga aaagatacat gtccaacatt 180  
 caacatatag atattaacta ttctcttact gatctggaca actttacggg atattgcttc 240  
 acttataaga catcaatttc tattgaactc ttttttgaac cctttatcac aaagttgact 300  
 aatgctttaga aggttatgct tagtccatc cacatataac acattcttaa cctgagtttt 360  
 atgttgatcc cctatatcat gagaatcatt atttttcttt ttttgggtgc tccaaacatg 420

accatagttt ggac

434

<210> 16009  
<211> 431  
<212> DNA  
<213> Glycine max

tgacatggtt caaaggttta aacttttaa ttttttttga ctatcttgaggatcttga  
ccogaagaat agaactgacaa aagcttattt tctctttttt ggacaaagta tggcaagctg 120  
tgggcaaaata aattctcttc ccacagagcc ttggatgcaa ctgtgatcgt atgcacatat 180  
tugctagatg tgaacgggta tccaagccat ccttcatttt gctttgaatg ttaaggagcg 240  
taccatccac actgtctcaa acatttttct ccacatgcac aacatcaata caatgtctaa 300  
cgtcaagatc agaccagcac ggaagatcaa agaaaataga cctcttcttc catatgcaac 360  
tcttaactttt atctttcttt tgggaacttc cagatatagg atgtaagtgt ggaacccgct 420  
catataactg c 431

<210> 16010  
<211> 415  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16010

tatttgcatt ntaagacaaa tccccccac ccogaaggct gattctcaat ccagcagtc 60  
cttaccacct tgtggtaatg ctgtttatta agccatccat canagacctt ataaggctta 120  
ggacccccat caatgctctt agatttcatt aggatagggc agtgatcaga gtagtctctt 180  
tcaaggttgt gctgcgaact gtctggccac ttagaaaagcc aaccatcaga gacaacagct 240  
ctatccaatt tctttttaca ggaaccatta ngcctaacc atgtgaaactg cttaccacaa 300  
ctangaatat ctccacctc catgatagca agccaatcat tgaaatctga catgatgctg 360  
gactctgaat tccatgatng ctccatctc tctgaaggct cctaatacat aaaat 415

<210> 16011  
<211> 425  
<212> DNA



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 gatgagttta gaagaagctc accaccatag gaggccatgg ataatagett ggaggaagaa 180  
 ggagatgaat gaggggagag gaagagaaga gcacaaattt ttgtgcctta aaagagctct 240  
 gatgagttta gaagaagctc accaccatag gaggccatgg ataatagett ggaggaagaa 300  
 gatgagttta gaagaagctc accaccatag gaggccatgg ataatagett ggaggaagaa 360  
 gatgagttta gaagaagctc accaccatag gaggccatgg ataatagett ggaggaagaa 420  
 gatagtg 427

<210> 16014  
 <211> 430  
 <212> DNA  
 <213> Glycine max

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 cccttatggt cagcaatctg aagcaattga atagcctgaa gcttatgctg caaacatcta 180  
 caatagacct cctcaacctc agcagcaaaa tcagccacaa caaaacaatt atgacctctc 240  
 cagcaacagg tacaatcccg ggtggaggaa tcctctcaac cttagatggt cgagtccttc 300  
 acaacaacag caacaataac aacaacaaca acaacaacag caacaacaac ccagaaaaca 360  
 gcaaccaatt gagactcttc cgcaaccttc ccttgaagaa cttgtgaggc aaatgactat 420  
 gcaaaacatg 430

<210> 16015  
 <211> 423  
 <212> DNA  
 <213> Glycine max

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 ttttactcgg gatgtctgat tgaatcccg aaatatatga gaccttcgaa attgaatggt 180



gatgctctga gcaaatccaa acgacaataa ctttttacac ggatgtgtga ttgagtcatg 240  
 taatatctcg agacgctgga gattgaattc tgaagctctg agcagattcg aacgacaata 300  
 actatgtact cggatgtctg attgaatcca atgatatac gacacgctcg aaatagatca 360  
 ...

<L10> 16016  
 <L11> 16016  
 <L12> DNA  
 <L13> Glycine max

<400> 16016  
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 tatgottgaa acaaaaattga ttggtcttga atgtttgaaa agcatgtatg aaaatgatga 180  
 aacttttggg gaaattttta aaaattgtga aaaattttca gaaaatgggt tcttttagaca 240  
 tgaaggcttt cttttcaaag aaaacaaatt gtgtgtgcct aaatgttcta ctagaaatcc 300  
 tcttgtttgt gaagcacatg aaggagggtt aatggggcat tttggggctc aaaagactct 360  
 acaaacatta caagaaacat tttattggcc tcatatgaca aaggatgtgc agaaattttg 420  
 tgaacattgc attgtatg 438

<L10> 16017  
 <L11> 449  
 <L12> DNA  
 <L13> Glycine max  
 <L23> unsure at all n locations  
 <400> 16017

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 tgaatttatt atacatagta tatattcca ttacgccttt tatataataa agttggcaat 120  
 tgacatatat attccacttt tctttagata tggagagtca tgagatgttt tgattattga 180  
 tcttattctg gttacttttg gtaccattcc ttaagaactat tpaagtgttg aaagagctgc 240  
 atactaatgt quattaacta tctaaagcct datatcaaga gaggctattt ctcaagtga 300  
 taagaggaaa tctacattaa gaggcatgag ttgctgggga acaggtatat attcgctcat 360

tcattcttca gattaatggc attaatgatt tgccttaatt aataatagaa agttcgaaca 420  
gaatattagt actangttat taccatgaa 449

tatctttatca catatggaga cgcctgaaat tgaaccagag aagatctoga gaaattcaga 60  
tggtcataac ttttcaactca gatgtccgat gctggcgcac agtatattga gacgctcgaa 120  
attgaacaac ggaagctctc aagaaatgta aatgatcata aatattcaat cggatgtccg 180  
attcaggcgc atcatatata gagaagctcg aaattgaaca atggaatctc togagaaatt 240  
aaaattgtca taacttttca ctggcatgta cgattcaggc acatcagata togagacgt 300  
cgaaataaac aacggaacct ctcgagaaat tcaaattggtc ataacatttc aactgaggt 360  
cggattgatg cacatcacat atggaga 387

<210> 16019  
<211> 414  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16019

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aaaccaagaaa gctcgaatga ttctacagaa ccagagacaa aagtaagcaa ggtactccat 120  
caatttgcac aaagaaaatt aaacatactg tagattaaga agattgagaa aaacaaacct 180  
ctctcttaaca gcaactgccag acaacacacc accatatgca cggttcacag tcttcgggt 240  
tttgggtaac ctgcatctct tatattctgt tggccttaaa tgtggaatct gcaattgcca 300  
agcattaata accattatgt tataacctgt atcattcata cataatctct taccaatcat 360  
agaaagaaaa atctagttgt aggaaccttg aacatcataa tcttaactnt taag 414

<210> 16020  
<211> 431  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16020

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tttttttt

ttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 120

ttattgacaa ctctctcatg tacctttaca aattgaaaga aaaattagca tgtatgcaac 300

attcatacct gaaccccgtc ccaaggtttt ttaagcttgc taccagcat gtggagctct 360

aaatntggtt cagcacanaa gttagaoggc aaagacttga gatagaatct atcccatcca 420

aggtacatca a 481

<210> 16021

<211> 431

<212> DNA

<213> Glycine max

<400> 16021

tatagaatac tgcgcctata ttgatgcgcc gtgaatggac atacgagtga aaagttttta 60

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cctgaatcga accttagtgt agaaagttat gaccatttga atgtcttttag agcatccgtt 180

gttcattttt gagcgtctct atatgtgatg aggctgaatc ggacctccgt gtgaaaagtt 240

atgacctttt gaatttctcg agagcttccg ttgttcaatt atgagcgtct cgatatatta 300

tgcgctcgaa tgggacatgc atgggaaacg ctaggactat tcgaatctct cgagagcttc 360

cggtgtgcaa ttgcgagcgt ctgcataat tatgcgcggg aatgcacat acaggggaaa 420

cgttatgacc a 481

<210> 16022

<211> 417

<212> DNA

<213> Glycine max

<400> 16022

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cacttgatcat ttgtgtataac aaaagaggat gcctttccct gacaacatta ttgtttcctc 120  
 ccaatatttt gatttggtgc acatggatat atggggctct tatgtctatc ctccattact 180  
 tgggcataaa tattttctta ccctcgttga tgacaaaaac atatatatc ggattatttt 240  
 tgggcataaa tattttctta ccctcgttga tgacaaaaac atatatatc ggattatttt 300  
 tgggcataaa tattttctta ccctcgttga tgacaaaaac atatatatc ggattatttt 360  
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<210> 16023  
 <211> 408  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 16023

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 agaaatatgt cagcatttat aggtaaattt gttctcaca ttcttgagaa atgtaaggac 120  
 ccaggtactt tctgtatacc ttgcattatt gggaacagta aatttgagaa tgccatgcta 180  
 gatcatgag catcagttag tgtcatgect ctgtccattt tcaattcttt atctcttgga 240  
 cctttacaat ctacagatgt ggtgattcat ttggcaaata gaagtgttgc ttaccccaca 300  
 ggtttcatag aggatgtgtt ggttcaggtt ggtgaactta tttttctgtt tgattnttat 360  
 gttcttaata cgggaagaagg attttcccat ggtttagttc caattatt 408

<210> 16024  
 <211> 396  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 16024

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 ataggttgggaccttcagaa gagtatggag tttagcaccac ttttaacat tctgatttaa 120  
 tctctttgt aggttagact gatgttgagg aggaggaact aacatattt aggtcaaatc 180  
 ctcttaaggy ggaaggggat gatcaatcc tcttaagaa ggaacagtc acaagagcra 240  
 tgagcaagag gctcaagag gatttggcta gactgctta acaagggcct aggttctta 300

tgaacctcaa ggtagatfff tgagcccatt gyacaagggt ggggtccaatt atctntgtac 360  
 atatttgatt angatgtcat tatatttggc cettgt 396

<410> unsure at all n locations  
 16025

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 aaggtaagaa tggaggatff gcttgagggt cctctcttag gcaatcatgg aacacaactc 180  
 cataactcga aytggaggac ccaagaaacag gcttaagcaa tagcattcat gtggctccga 240  
 aaaaggatga gaatggagga ttgccttgag ggctctctct tangcaatca tggaaacacag 300  
 ctccaaactc gaaaatggag gacacatgaa tgacaacgca attcattcat ggtgctccga 360  
 aaaagggatga gaatggagga tngccttgag ggctctctct tatgcaatca tgatacac 418

<210> 16026  
 <211> 445  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16026

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 attgaggcaa tagatctaaa tatttgggaa gccatagaaa tagggcctta tataccacc 180  
 acagtggaaa gagtttcaat agatggtagt tcatcaagtg aaagcataac tatagaaaaa 240  
 cctagagata gatggtctga agaggataga aaacgagtag aatacaactt anaagcraaa 300  
 aatataataa catctgcctt gtgaatggat gaatatctca nggtttcaaa ttgtaagagt 360  
 gctaaggaaa tgtgggacac tcttcgataa cacatgaagg aactacagat gttaaaagat 420  
 ctangatata tgcactaact catga 445





tgttttaccaa agagttttta ctctctggta atcgattacc agatttttgt aatcgattac 180  
 cagtagcaaaa aatgtttttt aaaaaacttt caactaaatt tacaacgttc caattgattt 240  
 caaaaagctg taatcgatta caatgatttg gtaatcgatt accagtggtg ttgaacgttg 300

<210> 16032  
 <211> 435  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16032

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 gtaaaaagtt atgtgcgtt gaatttgcgc agagattcgg tattccattt cgagcatccc 120  
 gatattattac gggactcaat cagacatcca agtaaaacyt tattgtcgtt tgaatttgcg 180  
 aagagcttcg ataatacaatt tcgagcgtct cggtatatta cgggactcaa tcagacaacc 240  
 gattgaaaag ttattgtcgt ttgaatttgc taagagcttc gataatcaat ttcgagcgtc 300  
 tcggtatatt acgtgactca gtcagacaac cgagtgaaaa gttattgtcg tttgaatntg 360  
 ctccagctt caacattcaa tttctagcat ctcgatatat tccatgactc aatcatacat 420  
 ccgagtaaat agttg 435

<210> 16033  
 <211> 435  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16033

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 tactcagctg totgattgag tcccgtaata tgcctgagacg cttgaaaattg aataccgaag 180  
 gtctcagcaa attcaaacga caataacttt ttactcgatt gtctaaactga ctcccgatgat 240



atattgtgac gctcgaaatt gattaccgaa gctctgagca aattcaaacg acaataacgt 300  
 tttactcgga tgtctgattg agtccagaaa tatgttgaga tgcttgaaat tgaagactga 360  
 agctctgagc gaattcaaac gacaataact tttactcgg atgtgtgaat gagtcocgta 420

<223>

DNA  
 Glycine max

<223> unsure at all n locations  
 <400> 16034

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 tgaacaatg gaagctcttg agaaatttaa atgggcataa cttttcacac ggatgtccga 180  
 ttcaggetta taatatatcg atacgtcga aattaaacat cggaaaactct caagaaatto 240  
 aaatggtcat aacttttcac acggatgtcc gattcgatcg cataatatgt cgagaggctc 300  
 gaaattgaac aatggaaact cttgagaaat tcaaattggc ataacttttc acacagatgt 360  
 ccaattcagg cttataatat attgatacgc 390

<210> 16035  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<400> 16035

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 tcaatttcga atgtcactat atgtgatgcg ccaaaattgg acattcgagt taaatgttat 120  
 gaccatttga atttctcaag agcttcogtt gtccaattct gagcgtcttg ttatgtgatt 180  
 tgtctgaatc ggacatccat gtgaaaagtt atgaccattt gtatttctca agagcttcog 240  
 atgttcaatt tcaagctctc cgacatatta tgcgcocgaa tggacatctc gtgtgaaaag 300  
 ttaagaccat tttatttct caagagcttc cgatgttcaa tttcaagcgt ctgcacatat 360  
 tctgcgcocg aatcggacat ccgtgtgaaa agttatgacc atttgaatat ctgcacagct 420  
 tccatg 480

<210> 16036  
 <211> 437  
 <212> DNA  
 <213> Glycine max

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 gagcagcaac caagttgacc ttctttggac tctaaaatac catagaaaac aagggtatgta 180  
 aaatgtgcaa ctagtccagat attaatcaga tctttcttaa accataaatt aaggcatttt 240  
 ccacagcaaa ccagggaagg catttcaatg gctaaaaaat tagatgccaa cttttctgca 300  
 aaataacatg ttggttaaaa cacagaagtt tottagcaag tagctaggca gtggcaccac 360  
 aaaaatgtaa caaaacattg taattcttca atatttatgt tatggctaag ctgaacatac 420  
 ttgtgataat acttatg 437

<210> 16037  
 <211> 438  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16037

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 ngatccgtta tggtcactat gagtatctag tcatgccctt tggatatgact aatgctccag 120  
 gtgtgtttat ggactacatg aatagagtat ttcacctta ccttgatagt tntatggtag 180  
 tattcataga tgatattttg gtatactcta agactagaga ggaacatgaa gaacacttga 240  
 ggattgtggt gataccctt agggaccgac aactntatgc taagctgtcc aagtgtgagt 300  
 ttgtggttaga gaaagttagt ttcttagggc atgtgatata tcaagggggt aaacctgtag 360  
 atccctctaa gatagaagtc gttcttgagt gggagagtec taagctnttg tgtgggatac 420  
 ccaatgtaag catagttt 438

<210> 16038  
 <211> 432

<212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 16038

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 ttatgggtgag ggcactagc acatagtttt ttaaattctct cccagtattc atacaggctc 300  
 tctccactga gttttctaat acctaaagta tcttctctga ttgctgtggt cttggaagca 360  
 ttgaaaaatgt tttctaagaa tactctctta aggtcatccc agctcgtgat gaaccttgga 420  
 gcaaggtaat ac 480

<210> 16039  
 <211> 409  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 16039

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 cttagagcaat tgggaaggcct tcttaggcac aaagcanatg ccagatatgt gaactatgtt 120  
 gcagaanagg acaaaaaataa tggtaattta tatgattctt cactttttagc taataataac 180  
 atggagcttt tctctgagcc tgagcatgct aagggtgtttg gtcctgttctg taagctttca 240  
 aatgagagtg ttgaaagcga tggaaagctca atacgaggta gtgacatgct taattttggg 300  
 attccaagtt catctgggtga tggctctcat gaccttctctg gatctgcttt gggtttcaaga 360  
 gagacagata ttatggggcca cacanagctg aagtctactg gtgaatactc aatagtcctt 420  
 ccactagat 480

<210> 16040  
 <211> 426  
 <212> DNA  
 <213> Glycine max  
  
 <400> 16040



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 gttttaagga ctgacaatgg cttggagttt gtttcagagc agttcaatga gttttgcagg 300  
 aaaataggca tcaaaaaggca caaaaacagtc cctcacacac cacaacagaa tggtttagca 360

ggtttttt tttttttt tttttttt tttttttt tttttttt tttttttt tttttttt

<210> 16043  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16043

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 ttgtgttgaa ggcctangcat atagctgaag cagctttgtt tcttgcctct gatgatgtg 120  
 ctgtttacat cagtggtcac aacttggtgg tggatggtgg gttctctgtg gttaatagaa 180  
 gttattcttt cacaccagct taattacatg tagagccaaa aaaacatagt tttgtggctg 240  
 gttggcatta atttccttag ctttcacaa gttgagaaca tgatgatgtc atgcagtgcg 300  
 tcaaaattacc ttgttaactgg gacttttttt tcaattgcac tctactaata attctgcaat 360  
 gtctctcttt tgtttgcatt tcaaaagcat acattcatca accttgtctg cttgtgactc 420  
 aaa 423

<210> 16044  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<400> 16044

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 cgttaaaccg ctgagagctg gaagccatct tctcgatgga atatctggct ccagcaggag 120  
 tcatgtctac aaaggctaca ccactggcat catatatcat acctctgtcc atattaactga 180  
 gtcttcata aaaatattat agaagaagct gctccgaaat ctgatggtga aggcaactgg 240  
 cacatagatg tttaaatctc tctcaactat catacaggtt cttctcaactg agttgtctaa 300

tacctgagat atccttctctg atggctagag tcttagaagc acggaaatat ttttctaaga 360  
atactctctt aaagtcctcc cagctcgtga tggaccatgg a 401

<210> 16045

cccatggaag ctcttaatat ctcccaact ttatggggag ggccattctt ggatggcctt 60  
gattttctta gggctcactt ggaccctatt tctaccaact aaaaaccta agaaaactat 120  
attatctaca caaaaggtac actctctat atttgcatag aggggtgttt tcttaaggac 180  
tgaaagaact tgcctgagat gtcttaagt atcatctagg atctactat ataactaatt 240  
atcatcaaaa taacaaacta caaatctacc tatgaaatcc cttaagacat gatgcataag 300  
cttcataaag gtgcttggag cattagtgg cccaaaagca tcaactagccc ttcatacaaa 360  
ccaaacttgg tcttgaaagc ggntntccac tcatcaccct ctttcattcc taattggtga 420  
taaccacttt ta 432

<210> 16046

<211> 391

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16046

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taaaattgtg gaggtttgac cgagtatgt tcaattntcc tcatgtcagc tttcatggga 120  
aggaaaataa cacattacta attaagttag tttctctgta agattcagtt agaagactaa 180  
ttaatgtggc accctctacc ccgacatata tatagtgaac ggaaacatag aatagtggga 240  
gtaacttaaa aagatttact tcacaattca atataaaaact tctcaacgga gtaaaaggtc 300  
acattcaccg attaaccaag ttaaaactta tcggtaagaa tataaaaaaca tgtttcgggt 360  
ccaaacaaag accataccgg tattataact a 391

<210> 16047

<400> 16047

<L10>	16048
<L11>	435
<L12>	DNA
<L13>	Glycine max

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ttatadcaacg aatgacagct ctgatatcac tatgttacac acagtggcct cagatatcga	120
taagaagggg ygggttgaatt aagatatcaa agactttcct caattaaaatt ttttaattctc	180
ctttttaaaa ttttcaatgt acctttatta tgaattacta aaaagacaat tcaaaaataaa	240
cttctttaat gcaaaaagaaa aataacaata actaaaagaa gtttaaggga aaagaaagtg	300
caaaactcagt ttatactggg tcggccacac tctgtgcta tgtccagccc ccaagcaacc	360
cgcttgagat ttccactatc ttgtaaaatt cctttttacaa tgtctgaacc aaggacaacc	420
cttcttttat gttca	435

1401 16049





gattaaaaacc ataaacaact tcaaggttta agaaagaaga atcatcggat gacgcogato 300  
 gaacatttcc taatagacat catccaaata ttattcaggy attgaataga agatadaata 360  
 ggcacatcg gcggttgtaa atcagcgact gatatttttc agccgacgtt gcgcaatttc 420

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<113> DNA  
 Glycine max

<123> unsure at all n locations  
 <400> 16052

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 ttgtggactt tttctaagtg tggaattgaa atcctcaate ccttaacgat tggcatcctc 120  
 cagctgaagt attaattgtg gcaattgact aattcaataa atgggttgaa gcgagctgg 180  
 tagccaggat caccattgaa caagtacata aatttttatg gcaatcaata atgtgcctat 240  
 ttgggatgct aaaaaccttg atagtagaca atggcacaca gttcaattgc aatagtgtta 300  
 aagaatttgt gacagccaca atgtaaagtt gatttttgc tgggtggaac accctcaate 360  
 aaatggtaag gttagaggtgg ccattaaggt gatactaaag ggttntaaat caaactttca 420  
 acat 424

<210> 16053  
 <211> 359  
 <112> DNA  
 <213> Glycine max

<400> 16053

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 ttttaactcg gatgtctgat tgaggcccggt aatatatoga gacgctcgaa attgaatgtt 180  
 gaagctctga gccaatcaaa acgacaataa ctttttaactc ggatgtctga ttgactctcg 240  
 tcatatatcg agacgctoga aattgaatgt tgaagctctg agccaattca aacgacaata 300  
 accttttaact cggatgtctg attgagggcc ghaalataac gagacgctcg aaattgaat 360

<110> 16054  
 <111> 412  
 <112> DNA  
 <113> Glycine max

<400> 16054

cttcaacatt caatttcgag cgtctcgata tatcacggga ctatatcaaa catccgagta 240  
 aaaagttatt ggcgcttgaa ttggctcaga gcttaaacad tcaatttcga gcgtctcgat 300  
 atattacgag actcaatcac acatccgaga aaaaagttat tgcattttgt aattgctcag 360  
 aggttcaaca tcaatttcg agcgtctcga tatattacag gactcaatca ga 412

<110> 16055  
 <111> 426  
 <112> DNA  
 <113> Glycine max

<400> 16055

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 ggagtcgaact caaggtttct ttattatcca tttagaatga aacacatata agttatactc 180  
 gtgagcatgc taggtatcca cttttaaatg aaaaaaaagt atagaggtag attatcaatt 240  
 acttttttta aatttatattg aataacttaa ttatttttta tagtataata acttaccata 300  
 aacaaatatt aaagaagtat ccgtgtctat tetatagtct cttcttagaa aaccataatg 360  
 gttggtctctt tattggaaat aataagtcac gatagaaaat cacataaaaag cccatttctt 420  
 cttttc 426

<110> 16056  
 <111> 436  
 <112> DNA  
 <113> Glycine max

<225> unsure at all n locations  
 <400> 16056



ccagcaccac aatgtgttat gaagcaaccc actgaagggt gttccaaaat cagctgttgc 360  
 tgtatccatc caccgaggac aattactctc tcttcaaccc tttccttgaa ccctctctggg 420  
 ajagcagctt caagtgtctc aaacc 445

<100> 16059

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 gaggacacat gaacgaaaac acaattcatg yggctccgaa aaaggggttg agaattggaga 120  
 attacactaa gcaatcacta cgcatactct caaactcga ggtggaggac acatgaacga 180  
 taaagcaatt catggggctc cgaaaagatt gagaatggag aattgcacta cgcatacact 240  
 acgcatactc ccaaacgcga aggtggagga cacatgaatg aaaaagcaat tcatggtgct 300  
 ccgaaaagaa tgagaatgga gaattgcact aagcaatcac tacgcatagc tccaaactcg 360  
 aaggtggagg acacatgaa 379

<210> 16060  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16060

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 aaggcaagat aaagtgtcaa atgaagaatt gaagctgcag gattcacgat gtccgatata 180  
 atgtccagga cctcctgctt gaaaatactg gaattgctaa aagcattgaa gctgcaggat 240  
 ccacgatgtc ggatacaatg tccaggacat cctgcctcga aatactggag ttgctaaaag 300  
 catggaagtt gcaggatcca ccatgtcgga tacgatgtcc aggacatctt gcccganaat 360  
 actggacata taaatctggt atatctttaa cagattattg tgcagthago aagagattag 420  
 atga 424

<210> 16061  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

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 ttagtatatc gctactatgc tactatgttt catgaactcc tattcattgt caatagttat 300  
 ttttgcocgt gtggatggaa gcctgatgct attgtccttt tatttagttg gcacaatgat 360  
 ctatttgttg ttgctgaacc tggagagctc gctgagaaat ttctacaaaa tgtntaaatt 420  
 tag 423

<210> 16062  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<400> 16062  
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 ccggaagacc tcttatecta tacatgacag tattagatga gtcaatgggg tgtgtgctcg 180  
 gacaaacaga tgaatctgga aaaagggaat gggccatcta ctacttgagc aagaagttca 240  
 cggcatgtag atgaactaat tgttctaga gaggacatgt tgtgccttgg cgtgggcagc 300  
 tccacgtttg aggtagtata tgctgagtta cactacttgg ttggtgtcca taatgtatcc 360  
 cgtcagtagac atcttgcg 377

<210> 16063  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16063

[illegible]

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gggaggaacta taagacaaga ctggttggat gggaccaaca gggaggcaag ggcatatgga	180
gggccttggg gaactttctc gctgatgctg attccgtgtg aaataaaata gatgtcaaac	240
atcagaaata tttaaaatga tatatgacct ctgcctatcc gctgccttat aattcatcag	300
ccacaaatta ccttgcagtt gtacttcgat gtaacgtgaa cagaacatgt ccagagcatg	360
tttacaaaaa tatggaatat caattaatgc atgaatagac gttacgtttc actgaggcac	420
gtctcatttg gttacatgtg gag	443

atggtacaa atatttaca tagacctct caatctcagc tgcaaaatca accacagcaa	60
agcaattatg accttttcag caacagatac aaccttggat ggaggaatca tcttaacctc	120
agatgttcca gacctcagca acaacaacag cagcttgcct ctctcttcca aaatgttgtt	180
ggcccaagca gacctatgat tctctcacca atccaacaac agcaacaacg ccgaaaaaaa	240

ccaacagttg aggcacctcc acaaccttcc ctgaagaac ttgtgaggca aatgactatg 300  
 cagaacatgc agtttcagca agagaccaga gctccattc agagcttaac caatcagatg 360  
 ggacaattag ctacccaatt gaatcaaca caatcccaaa attctgaaa gctgccttct 420

<300>

<310> 16065  
 <312> DNA  
 <313> Glycine max

<400> 16066

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 attcgatttt tgggtcttca aaacctaaat caacctttct ctccacctg acaactatgc 180  
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 tctccataac cacaagttct gctgggaaga tcaaatgttg taacctgacc aacacttcaa 300  
 tcactccaca ggacctggta atggagcggg cagctaattg cacagtcatt cgagtgggca 360  
 taatctccaa ctctccagc cttctgcaca tggagagtgg catcaaatca atgttggctc 420  
 ccagatcaat catagcc 437

<310> 16067  
 <311> 435  
 <312> DNA  
 <313> Glycine max

<400> 16067

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 tgaaccttgat tttctcaggg tcaacttggg ccccatctct acaaataca aaacctaaag 120  
 agactatatt attacacaa aaggtacact tctgtatatt tgcataagag gagtctttac 180  
 taaggactga aagaacttgc cggagatgac ctaagtgate atttaggctc ctactgtaca 240  
 ctaaaaatac atcaaaaata acaactacaa atttacctat gaaatccctt aagacatgat 300  
 ccaataagctt cataaagggt ctgggtgcac tagtgagccc aaaaggcctc actagccatt 360  
 catacaaaac aaacttggtc ctataagcgg ttttccactc atcaaccttg tctatcttca 420

tttgggtgata accac

435

<210> 16068

<211> 424

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cattctcttc acagaactct ttggaaggga attctctctc ttggtttagta ctcatggctt 240

tgatcttttg actactttct ttctctatta tagctttgaa ctctcttgag ggggaaaaga 300

ctttggatcc ttctcttaac acatatactc atgtcttctg tgagaaactaa ccactgaaaa 360

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gtat 424

<210> 16069

<211> 385

<212> DNA

<213> Glycine max

<23> unsure at all n locations

<400> 16069

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tttttactcg gatgtctgat tgaatcctgt catatatoga gacgctcgaa attgaatgtt 180

gaacctctga gogaattcaa acgacaataa ctttttactc agatgtctga tatagtctcg 240

taatatatcg agacgctoga aattgaatgt tgaagctctg agcaaatcca aacgacaata 300

actntttact cggatgtctg attgagctcc gtcatacatc gagacgctca aaattgaatg 360

ttgaagctct gaggaaattc taacy 385

<210> 16070

<211> 430

<212> DNA



<213> Glycine max

<400> 16070

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cttcttcttctt tcttcttctt tcttcttctt

aaaagtattt gtagttgaa ttctctttaa gtttcaaat ttaattttaa atttcctgat 120

gtatgaaggg actcaatcag acatccgagt aaaaagttat tgtcgtttga atttgcctag 360

agcttcaaca ttcaatttcg agcgtctcga tatattacga gactatatca gacatctgag 420

taaaaagtta tt 432

<210> 16071

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<212> DNA

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<400> 16071

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aaaggggttta cttaaagttg cggatctgaa agtgggtccag caatcaacga cacttctggt 180

gccagtaata actgtaacat cctttccatc gccaaacaga acaatattgg tcttataact 240

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actgtcattt ggagcaaagt tgatagccct agtgatgaag cttaaagtttc cgtttccatc 360

agcagccaca acaagctctc ctccatcatt gctntgcaag agacggcgaa cggttttcat 420

cgacaaccac aac 433

<210> 16072

<211> 424

<212> DNA

<213> Glycine max

<400> 16072

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[illegible]

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<210>      16374
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<212>      DNA
<213>      Glycine max

<400>      16374

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<213> Glycine max

<223> unsure at all n locations

<400> 16077

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cgctccatta gcaggccata tggagtaatt gaagatggtt tggtcagagt aaaacattnt 360

atcttccggg cagactttgt ggtgatggat atctctgaag atactgacat ctttgtaata 420

tt 482

<210> 16078

<211> 366

<212> DNA

<213> Glycine max

<400> 16078

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tctgaaaata tgactgtgtc agcagctgtc aagttgatac ccaatccacc agctcttgta 180

ctcagtaaga acacaaaaat atcactcctg aaacagagat ataaagaaac aagtcactct 240

cagtagtctc accaaagtag acacattaaa gcattgacaac acagacatta cctgtgctgg 300

aagtctctaa ccatgtctct gcgactctga atagtggatg acccatcaag tctaaaatat 360

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<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16079

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 tgaattact atggcttagt tatagtagat gattactcaa cgttcacatg gactttggtt 180  
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<210> 16080  
 <211> 410  
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 <213> Glycine max

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 atgtacagta gtcaacattg gcaccagga cttcattgaa ggaagggtat gcttgtagge 180  
 attcaagttt ccaccataa aagcagaatt attgtgggcg tgtacactgc agaacaacaa 240  
 aatttaagat taaatttaat ttataaatga aatcctttgt taagttatga aataggaatt 300  
 tttttattct aaaatcaaat cctttgggtc gaaagttata agaatttttt cttttttttt 360  
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<210> 16081  
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 <213> Glycine max

<400> 16081  
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 ttttaacttc ttcttgagtt agaaatttac ccttaatatg aattactcaa aagataattt 180  
 agagtaaaat tctttatagc caatgataga tgacgatata taaaagaagt ttaagggaaa 240  
 agagaatgac aactcatgtg ttatactggt tcaggcacac cctatgggct acgtacagtc 300  
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<210> 16082  
 <211> 423  
 <212> DNA  
 <213> Glycine max

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 gatgtgcttg atgaggtgct acagcttggg aagaatgttg gaaactagag aggacttggc 300  
 tttaatcata agtctgctgg cagaacaacc atgacagaat ttgttcttgc caaaaacagc 360  
 actggagcca cgatgtcaca acatcggtct cgacatcatg gaacgcagca gaaaaggagc 420  
 aaa 483

<210> 16083  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<400> 16083  
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 tgcaaaagat tgtatctatt caaaggaatt tcttatgggg aagtcaccaa gactccaaca 180  
 agatcccttg gggaggcgcc atttgcacat gaatcactct tgaggcaaaa atcaaggatc 240  
 aaatggctca ggggaaggta cagtaacaca tgcttcttct ataaatccat aaattttaga 300  
 agacattata atgcaattca aggaatatct attgaaagta tatgggttca gcaacccaaa 360  
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<210> 16084  
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 <212> DNA  
 <213> Glycine max

<400> 16084

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atttaccag aatttgaatt aatttact 240

<210> 16035  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<400> 16035  
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 aacaacgaaa gctcttgaga aattcaaattg gtcataaactt ttgacacgga tgtcctattc 180  
 aggcuaatca catatcgaga cgtcaaaat tgaacaacgg aagctcctga gaaattcaaa 240  
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 ctcgaaatat aacatgtaaa gctctcgga aacttaaattg gtcataaactt ttcaacgga 360  
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<210> 16036  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16036

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 atttttaaga aatttgagcc aaaaaaaaaa agtgttcaag agaatatgtt agagacagtg 180  
 tgcctaccat tctctgtgtt aggaatgggt ttgttagtta ttagtgaata tagaaataga 240  
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tgatagatca ttatatattt ttcttttctc taaaacaaat gatttattta ttgtcttgng 360  
 gtgggtgtata taaaaactga tcaacacatt ntacttttct ttttttg 407

ttgacacttt caatatgatt gtcttaagtt gtattagaaa ccatttttatg ctgagatgga 49  
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 gaagaaggat gagtgggttc tagactcggg atggggcaac cacatgagta gtaacaagga 169  
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<210> 16083  
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 <212> DNA  
 <213> Glycine max

<400> 16088  
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 aaagaaaagc ttactaaggc acttgttcta gctcttctcg acttttctaa aacttttgag 180  
 ctagaatgag atacctctag agtgggagtt ggagctgtat tgttacaagg tgggcacct 240  
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<210> 16089  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<400> 16089



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ataagtcttc cacaacaaca acagcccttc cctcccttac aaaaatgttg tggcccaagg 180  
ggtgcataat gcacaaggca agataaagtg tcaagtgatg aattgaagtt gaacgatac 418

<L10> 16090  
<L11> 403  
<L12> DNA  
<L13> Glycine max

<L40> 16090

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gtagtccctt ttacttgagc atcaatctag cgtctgcat aactgtgcca ttctttctct 240  
cggacactcc attttgctga ggagaatatg cgactgtaca ttgtctctca atgccttcat 300  
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<L12> DNA  
<L13> Glycine max

<L40> 16091

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tccagattta cctgggtcaa ctttatcaga gagaaatcag acacctttga agtattcaaa 180  
gagttgagtc taagacttca aagagaaaaa gactgtgtca tcaagagaaat taggagtga 240  
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catgagttct ctgcagccat tacaccacaa caaatggca tagttgaaag gaaaaacatg 360  
actt 364

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tcataactct tcaactcgaat gttcgattca ggtgtatcac ac 402

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<211> 373  
<212> DNA  
<213> Glycine max

<400> 16093  
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tactttctat gcttgaaaca aaatcgattg gacttgaatg ttgaaaagc atgtatgaaa 180  
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gaaatctgct tatttgagaa gcacatgaac gaggtttaat ggggcatttt tgggtccaaa 360  
atactctaga tacattac 373

<210> 16094  
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<213> Glycine max

<400> 16094

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gctaacatc aagatcagat cagtaagaga gatcaaagaa tatggacctc tctctccata 360  
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<210> 16095

<211> 425

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16095

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ctgcagatat actttcaagt gtagaattcc aaccacaatg ggtagaag gcccactg 180  
atggatgaga aagcactttc tcttgaacac accaacttgt tatatatccc ctgtccttga 240  
tctcatcaaa gaactcttgt ggcaaagata tagattcacc cattactaca tctgggtctc 300  
ttatccataa gaaatgttgc ttgctatttg ctagtcccca agcaaattct ttcaagtgat 360  
gtctgtctat caccgttata cttccataat taacatatat gactgagtta ggttccatt 420  
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<210> 16096

<211> 411

<212> DNA

<213> Glycine max

<400> 16096

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tttaatcata caatggtacc ctttatgttc aagccaccag tccaccaccc taaaaggctt 180  
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 ttgaagaaca tggcgagaag catcatgcca caaggatagc catcgatcag acaccatgaa 300  
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<211> 424  
 <212> DNA  
 <213> Glycine max  
 <400> 16097

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 gctcttttcag caatgaagat tatcaagtct aaattgcgca ataagatcaa cgtgtgtggg 300  
 tccaatgact tgatggtatg tgacaccgag cgggagatat tcaagtcgct cgtatgatatt 360  
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<210> 16098  
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 <212> DNA  
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 aaagatagtt actattcaga gaaattttct atagggaggt gattttgagg ccaacaagat 180  
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atac

424

<210> 16099  
<211> 375  
<212> DNA  
<213> Glycine max

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agaattctct ggcaattca aactgccgag acttttcaca ggaatgtatg attgaggcca 240  
aaaatatatc tcaacgctca aaattcgaca aagaagcttt ggggaaattc caattgtgat 300  
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<210> 16100  
<211> 427  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16100

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<210> 16101  
<211> 377  
<212> DNA  
<213> Glycine max

<400> 16101

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tttcttaagat tggatta 377

<210> 16102

<211> 352

<212> DNA

<213> Glycine max

<223> unsure at all n' locations

<400> 16102

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ttcttcatgc ctcttaagta gcacatgtcc aaatctttga tgcacatctt tgactttatc 180

ttctatggac gatagacatg ttgaggagta gctggtttct tgaggagtcc ataggcagca 240

gatgtccttg gacctgtgc ccttgattag agcttcaact ttctgcttcg ttaccaagca 300

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<210> 16103

<211> 367

<212> DNA

<213> Glycine max

<400> 16103

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taattcagtc ttaacagcct taacctctta ttgtgtgtcc ttcttcaaga taacctaaaca 120

tggtgtgcaa aagattgtat ctattcaaag gaatttctta tggggaagtc accaagaactc 180

caacaagatc ccttggggag gggcatttg caaatgaatc actctgagg caaaaatcaa 240

ggatcaaattg gctcatggaa ggtgacagta acacatgctt ctttcataaa tccataaatt	300
ttagaagaca ttataatgca gtctaaggaa tattcattga aagtatatgg gtccagcaac	360
caaaatt	367

insure at all n locations  
 <400> 16104

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attaagattt agagtctaga gtttatatca ttatgatatg tttttatctt gtctttggat	240
tgttttcatt tattagaact cttattttgt taagatttgt tttctctttt aggatcaaaa	300
tcttatttta tcatatcttt agttcatata agattattgt tttatcttat ctttaggtta	360
gaaactatta aaatttggtt tccgtcactt gttntgtatt tccctataaa taggaagcca	420
tg	422

<210> 16105  
 <211> 379  
 <212> DNA  
 <213> Glycine max

<400> 16105	
ttcttgccat tacaccactt gaccattcaa ctaggctgca tcaagatgaa gggaaaccat	60
atgaagatgt agtactctac agaagattga ttgggaaact tctgtacttg aacaacacta	120
ggcctgacat cacatttgcg actcaacaac ttagtcaatt ctttaagttaa cttagtatga	180
cacactacaa tcttgcctgt aggyttgtta agtacctcaa aggcagtcct ggccgaggcc	240
tgtttttccc aagaaagcca gaaatccagc tactaggatt ttctgatgtt gattgggggtg	300
gttgccttga ttcaaggagg tccatttcag gatattgctt cttcttggga gcatctttga	360
tctcttggag agctaagaa	379

16105 16106

4110>	16107-
4111>	336
4112>	DNA
4113>	Glycine max

<400> 16107

K2108	16108
K2118	373
K2120	DNA
K2130	Glycine max

400 16108

100



ggtggcagga aatacaacca tagaaaaacc tagggaagaa tcgagtgagg aagaaaagag 240  
 attagttcat tacaatttaa aagocaaaaa tataattaca tctgctttag gaatggatga 300  
 gtaacttagg gtaacaaatt gtaaaagtgc aaaagatatg tgggataccc tacaattaac 360

ggtggcagga aatacaacca tagaaaaacc tagggaagaa tcgagtgagg aagaaaagag

<210>        16110  
 <211>        DNA  
 <213>        Glycine max

<223>        unsure at all n locations  
 <400>        16109

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 tatatcaaat ggaacataaaa agtgcattcc acaatggact aatataagag gaagtctatg 120  
 tagaacaacc cccctgggttt gagagtaaca ctctccacaa catgtcttta aactcattaa 180  
 agcttttgtat gggctaaaga aaactccttg agcttttgtat gaatacctta gtccattcct 240  
 ttgataaat ggttttgaaa gaggaaaagt ggatatagct ctattctgca aaaactatga 300  
 ctactaattt atattagtag aaatctatat ggatgtcacc atacttggtg ctactaatga 360  
 aactctatgt gaggatttct ctaagttaat gtacgttgaa tatgaaatga gcattgatggg 420

<210>        16110  
 <211>        367  
 <212>        DNA  
 <213>        Glycine max

<400>        16110

gaggaaattc aaacgacaat aacgttttta tttttgtcgg attgagtcac gcaatatcgg 60  
 gagaagctgg aaattgaaga ccgaagctct gagcaaatc taacgacaat aactttgtac 120  
 tctgatgtcc gattgagtc cggaaatatgt cgagacgcta gaattgggat accgaagctc 180  
 tgagcacatt catacgacaa tgcctaattga ctccgatgtg ggattgagtc acgtaatatc 240  
 tcgagacgct cgaaattgaa taccgaggtt atgagcgaat tcaaacgacg aataactttt 300  
 taactaggtg tgcgattgag tcccataata tgacgagacc ctccgaattg aataccgaag 360  
 ctatdag 367

<210> 16111  
 <211> 334  
 <212> DNA  
 <213> Glycine max

atataaag agatccata taagtgaaa acatcctaa acacccgat gcaattttct 180  
 aaaaatcac taaaaatact aatcatgcac cactagaaga taccaggggc attgcacatg 240  
 ccgaaggcca tctctctgta agcaaaagtg ccaaagggac atgtgaatat ggtcttttct 300  
 tcatcttat gaacaatagt gatttgcata taac 334

<210> 16112  
 <211> 366  
 <212> DNA  
 <213> Glycine max

<400> 16112  
 tggtaacat taggcatgtg aagcggggcg aattcctaga ggaactccct tatgttatca 60  
 gacataaata gggaaaagga aatgtttgtg ccgatgctct ctctcggagt catgcattac 120  
 tttctatgct cgaacacataa tagagcgccc atgaatgtta gcaccgcatg tctgaacatg 180  
 atgaggcctt tggagaaatt tttaaagctt gagataaggc atcagaaaat ggctacttta 240  
 gacatgaatg ctacttttcc aaagaaaaca catggtggat gctaaatgt gctacaagaa 300  
 aatggcacgg ctgtgaagca catgaatgag ggtaaatgcg gcatttggtg gtacataaga 360  
 gtctaa 366

<210> 16113  
 <211> 331  
 <212> DNA  
 <213> Glycine max

<400> 16113  
 tactaaggca cctattctag ctgttctga cgtttctaat cttctgaact agaattgtgac 60  
 gctataggag tgagacctaa agctgtatg aataccaagt gggcactcta ttgcttattt 120

tagtgaaaaa cttcacgggtg ccacactcat ctaccccacc tatgataaaa agcttttatgc 180  
 ctttaacaga gccatgacctt cttggggagca tcaacttgat tcccacgaat ctgtcatttca 240  
 tagcgatcat gaatcaattt tgcacattcg acggcaacag caagttaagc caaaagcatg 300

ctgtggtt ctttcttctt cttggttttt

<210> 16114  
 <211> 367  
 <212> DNA  
 <213> Glycine max

<400> 16114

tgttatattgt ctttatccaaa acaggaccac tttcatatct ttcctcttgc tttggcataat 60  
 gttcaattac tgtcaaggct tttggagcat ctataacttg ttcaactata ttttctgcaa 120  
 catttcgggtt gataagctgc atcaaatctc tctttttctt ctgtattctt tcagcaacgaa 180  
 agtatctttt ggttttcaat tgccttggcaa ctttagtttg tatctctctt tggacaatct 240  
 tcttcogtat cgtcatccaga gaagccccct tctcaagctc ttctaacaat tctttttctg 300  
 cttctccaaa ttcctctctaa ttcaattaag cagtgcgtgc caaaaagtat tgttagagaa 360  
 aatgaaatat gattgacaat ctaagtaatt aatatttaat actcagcaga aaaaagaaga 420  
 aatcagaa 428

<210> 16115  
 <211> 367  
 <212> DNA  
 <213> Glycine max

<400> 16115

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 aaaatgttgt aaaaattaat ttaaaattaa tgaccctac aagaatcaaa ccttcagagat 120  
 ttgtgttatt agcacaacac tctaaccaac taaactaata aatgaattat attatacaat 180  
 aattaatgtc acttatatgt atactaaaat ttttaattat taatgcgcct gaaaatttag 240  
 ataataaatt ttgcaacaat taattttgat ctaacaatta atttgtttac acatgttctg 300  
 agaaaaacaa ccactagacc acatgtcatt cacatattgg ataattgaac actgcagaag 360  
 ttgagtg 367



ttgatatacct gcaaaacaca agtattagag gagaagatta actcggagct gtttgoggaa 240  
atgagttttgg atatggatat gagattaaag ctaaaagaag gtatgtatag aacatcttct 300  
aatgtaattg aagaggtgag atggacggtt cccgagtggy tgggatgaac ttgtygtoca 360  
ttgatggtt tttgaggtt ggttattt ttttattt ttttattt ttttattt 420

<212> DNA  
<213> Glycine max

<400> 16119

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cattggggaga tataatgata ggggtgtgtg tgatatggtc ccaatggaag cgaacctatg 120  
gctgttagga agacctgggc agtatgatac caaggcagtg catgatggct tcaccaacaa 180  
aatctcttctt aagcaagatg acaacaaaat tgttctcaaa ccgttatctc cgagagaggt 240  
ttgtgtggat cagataaaaa tgagagaaaa gaaaaggagt gagacacttg agaggaaaaa 300  
gagtgaacaa cttgagaagg aaaagagggg aaagaaaaag agtgaaacac ttgacagga 360  
aaagagagaa aacatataga gtgaaacact cgagagggaa aagagagaaa aca 413

<210> 16120  
<211> 379  
<212> DNA  
<213> Glycine max

<400> 16120

taaaggaagt gaaagaatta gcatgggcag aaatgtcttc gcattgattg gtaaatattga 60  
tccccaaatc cttataaat gtaaagatcc aggtacatc aacatacctt gtattatagg 120  
gaacaaggag ttgacaatg ccattgctaga tttaggagct tctattagtg ttatgccttt 180  
gtctattttt aattctctat ctcttggtcc tttgtagtea actaatgtgg tgattcattt 240  
agctaataga agtggtgcct atcctgctgg ttctatagag gatgtcttag tttaggttgg 300  
tgaactaatt ttccctggty attcttatat ttagaatatg gaggaaggat ttctctatgg 360  
atcacttccc atcattcta 379

<210> 16121

<211> 416  
 <212> DNA  
 <213> Glycine max

<400> 16121

gcctatctgg ttatgacctt attttagagta cttttccaga gatatgagca gcctcaagga 240  
 tgaatgccaat tttaaatttc atcccaacta tgcaggtatt cagctatctc atttggcttt 300  
 tgcagtatgat atttatgcttc tatctagatg agatatccat tctgtgttaa ctatgtttgc 360  
 caagcttcag cacttctgta gggtttcagg gctttccatc agctctgata aatctg 416

<210> 16122  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<400> 16122

taataagagg catgctaagt gggtagagtt tttatagcaa ttcccatatg tcatcaaaca 60  
 taaaaagggg aaaggggaatg tagtggctga tgcactgtct atgagacatg ctttacttgc 120  
 tatgcttgaa actaaactgt ttggactcga gtctttgaaa gacatgtatg tgcatgatgt 180  
 ggactttgct gatatttttg ctgcatgtga aaagttttct gaatatgggt actatatgca 240  
 taatggattc ttgttaaagc aaataaattg agtgtgecta agtgttccat tatagagttg 300  
 cttgtgagtg aatcacatga gggggggttg atgggacact ttggggttca aaagaccctg 360  
 gaaattctgc atgagcattt tctttggcct catatgaggc gtgatgtgca taa 413

<210> 16123  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<400> 16123

tttctcagtc gctctgaagg atgatggg\* gtcataaagg ggcgagccct actctagact 60  
 gttttctcgt catgtttaag ttgtatgtaa cttctatttt cttcacagat gggcatgca 120

tgatgacct taactgtgta accgttgaga tteccatg ctggaaagtc attaatggta 180  
 caaaaaagca ttgaagcat ttcaaaggtc tcttgcgaa acgcatcaaa caactacc 240  
 ccttgcgcc acaattttct cagatcttca accaacggac ttagataaac atcaatgtca 300

<311> 412  
 <312> DNA  
 <313> Glycine max

<400> 16124

tgccttattt aggtgggggc atgcaatcag tttaatatgt tgcgggggat ggatattcag 60  
 cctttttact gaaatagata ttatagagaa gcattatcaac aaaaagaact gaaaaaaaaat 120  
 taaaattggt gatcttcctg tattttcctt ttgttggtt atctatttca cctgtccccc 180  
 ttaaaatata tttcttaatt atatcttact gttccactt ttgatttttg tgacctcat 240  
 ttgaaccact ttgtgttct ttacaggaca aaattgaatt aaggggaagga tcttggtttg 300  
 aaccattaaa agtatgggaa ggaaagctag tgggtcttgg tagtaaccca ccttatatac 360  
 caagtaaaga catctctggt ctacaagctg aagttggtag gcattgaacct ag 412

<210> 16125  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<400> 16125

tcttcttaaa caaggttcca gtgtaattt gatgtgctat aatgatctat aaatagctaa 60  
 tactaattaa taagcatagt ttaataaact atattgtcct tgaaatatct ctttattaaa 120  
 ttataagata attattataa aaacaaataa ttttacaaga tatagggact tataattgta 180  
 tgatcatata ataactgtgta cactccaata tttctatttg ttagtcttaa aaagataaaa 240  
 ccaaatctac aatgaattta tttttcaaa attaaaatca tgaaataaaa gtttatctga 300  
 tgaataaaca actagtggac ttacacaaa tataacgagc gcataatcat aattgtctaa 360  
 atctctatta gcacaaactt ttgttttaa 390

<210> 16126  
 <211> 413  
 <212> DNA  
 <213> Glycine max

gaaatcttga tttttaaagg tgaatttaatt tgaatttggat g tgaatttga tgaatttga  
 gaaaactctt gaaattcaat ttgaaaagtc atgattccttc aaaatataat tgtgtaatcg 180  
 attaccagaa accataatc aattactagt gaagaatttc agaataagct ttttgaaaag 240  
 acacatctct taaaccatt ttgaaaaggc acgaaggggc tatatatatg tgtgtctgac 300  
 ttcaaaaagt aagagagaga tattctaaga gaatttcatt gcaaaattct ctctcaacaa 360  
 ctcttgggca aacacttgta aattctattga gatttcattc aggaatttca aat 413

<210> 16127  
 <211> 373  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16127

nttatgctag cttatttaat tagtggttag taacttttagt cttcaaaaaca gctgaacgat 60  
 gtataatgac agaactcgac acatttataa gatactttat cataaatcta aattttattt 120  
 tgtgaataaa cacatatctc gaggtgttat aatcatagta tttaaatgaa ttttaaactc 180  
 ttataatttt tgatctaaat tgtaattttg gtactacctt gttacccaaa tacatgattc 240  
 tggtcacat atatttttga tgtgacatat ggtccacata gatatatataa ttggcgattt 300  
 tggtcactt agaacatgat aactaatgac ttcaataaat aaagttatta tatgattcta 360  
 taatttaatta aac 373

<210> 16128  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<410> 16128



cttcactcgg agatctgatt caggcgcata atatatcgag acgcttgaaa atgaacaacg 60  
aaagctctcg agaaattcca atgctcatta tctttaactc ggaggctctga tttaygcgca 120  
taatatatca agacgctcga aattgaacaa cygaagctct ctagaaattg aaatggctcat 180  
tctctctctc tctctctctc tctctctctc tctctctctc tctctctctc tctctctctc

acataattt tctctctctc gtcctgattc agtgaataat atctcgagac gatcg 411

<210> 16129  
<211> 415  
<212> DNA  
<213> Glycine max

<22> unsure at all n locations .  
<400> 16129

ctccagttt ttaagttctt cctcaaaaact gccctactct tatttcccaa agnccatatta 60  
acaacattgc gtttgcccat cggtttgagg gtgacaagag gatgaaaata acaatttagt 120  
gcccgaacttg cctcacaag cctccaaaa atggcttatg aacttagagt ccttatcact 180  
aacaatgcta ctgggcaaac catggagtct cacaatctcc ttgaaaaaca aatcaaccac 240  
atgggaagca tcaatcaact gtcttatatg gaataaaatg agccatttta gaaaacctat 300  
caacaaccac agaaatggaa attctaccat tgcttgtttt tgacagcccc aaaacaaaat 360  
tcattggataa atcactccaa ggaatactac ggaattgaca atggagtata caatt 415

<210> 16130  
<211> 350  
<212> DNA  
<213> Glycine max

<400> 16130

gagcaagact acttcagact gatcaaaagt atttatttta tgaaaaacta tcataacaac 60  
tagaatgtat tgcctgcat caaccatgac attattacaa agactatcct atctagacca 120  
atatgcttac taaagaagca taactgataa aaagctgtat gatgaacctc atccccatag 180  
tgatgtaate tccattggag ctgtgatgc taggatcttc ttcattaatg gatcccttg 240  
cttcttggaa gatgaatgc atggaatgc ataaugaaga gagagaggag atgcccactc 300

agggagaata tgagactaga agaagctcac caccatagga tgccatggat

350

<210> 16131

<211> 404

<212> DNA

<213> Glycine max

gatggtgact cccctctact cttctccttt gccttcctgt gcctctccat ggtggaaaat 120

caccattgaa gctcaaagat ccagcctcca tagaagcttc acatgcaagc ttccatcaga 180

gatagtgcac ctgatgtca aaacaacctt tctccatgga agattggagg aagacattat 240

gatgcaacaa cctgaaggtt ttgaatggt aggggaagaaa aattatgtat gtacgttgaa 300

aaggtttata tatgggttga aacaatctcc aacgaagtgg taccagagag tcatgagtt 360

cataattactc atgggtcaac aaaagtgcac atgatcatgt atca 404

<210> 16132

<211> 418

<212> DNA

<213> Glycine max

<400> 16132

tctaagccta ttacagtagt gtacaaccca atactttctt caaataaaaag aaagaaggat 60

aaagggaagg tagtggttgt tcttttaaaa attacctttt agtggagtat ttataatgta 120

tatgatctta catggtattt atttgcctca gtgagtgtag acagaacata gagttagttg 180

agcaattaag ttaccacct ccaaaactcca gagttttgta ttttccatct cattttccac 240

aaaatggttg ggaacagttt aaagcatgct tgtggaaaca acatttgttc tattggagaa 300

ttccttcata caacttgatg cgcacatcat ttgtgcgtgt ctcctctctt ttgtttggga 360

tattgttttg gaagcaagga tagacaatgt tagtgatcat aattttatct tacttatg 418

<210> 16133

<211> 416

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16133

nttaataatg gtagatgtctt atttatttgt atttatgttg atgaccttat ctttatcggc 60

ataaaccocaa atttggtttaa agacttcaag gagtccatgt ctctggaatt tgagatgaca 120

tttgaagc atttggtttaa agacttcaag gagtccatgt ctctggaatt tgagatgaca 180

tgtagagacg ctaagggtctt caagaggttt ggggggagtt tgaggtatct aaccaatata 360

aggcccgata ttctatatgc ggtgggagtt gtgtgtctgt ttatggaggc tccctac 416

<210> 16134

<211> 417

<212> DNA

<213> Glycine max

<400> 16134

tgtatcctct actaactaca aattgatttt ttcacaaaat atttgatttc tacaggatac 60

caataccaag gtagaggattg gtacaattga agtgaatcgc ggcctctatc aattcacccc 120

ggaagcacca aaaacacata ccatatgttc tatcattaca caccocaaagt gtctaactct 180

ccctgtaaat ctatggcatt ttctgtatggg tcaccccttt cccgaaagat tacaagccat 240

gcaaacatac tatcctttct taaataataa caagagtttc atttgtaata ctigccatta 300

tgccaaacat aagaaattac cttttcattc tagcacatct catgcattaa atcaattcga 360

gcttttacat gttgatattt gggggctgtg ctccaaaaca tccatgcatt ggcacgg 417

<210> 16135

<211> 405

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16135

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tgataagcaa ataagcttat taacaccagt tctgatggat gcaaccccta ttggtgtaaa 120

gtttggggat tctagctctg atcttcccaa gaactcgacc attaaagagag ctgacatggt 180

gctctgtact ttctggtctg cgtgcccctg taatgacctt atgaatgaag gtacattttc 240

cctgggtggaa tttctccaag gaaaggatat gtgggttccct gcttatgatg atgatgattt 300  
 ctgctctgggc tccaagtggc caagaccttt canactcagt tctcatagta aagctaccat 360  
 agaaggaga atcccaagg arghactcc tgggtatata agaatt 405

<20> Glycine max

<22> unsure at all n locations  
 <40> 16136

ntaactgaat ttgcaacatt ccaaatgatt ttaattggc gtaatcgatt acaatatatt 60  
 ggtaatgat taccagtgc tctgaaagtt gaaattcaaa tccaagtgtg aagagtcaca 120  
 tctttccata aaatgctctg tgtaatgat tacatggtta tggtaatoga ttaccagtga 180  
 caagttctga ataaaaagtc aagagatgta actcttccaa tggttttctc aagattttct 240  
 caaggttata actcttcaaa tggttttctt aaccagacat gaagagtcta taaaagcaag 300  
 acctgactt gcattcaaat aacttttaca acttttgaga aatcttgaaa cttttcttct 360  
 tcatctttct tcttttctct ttgccagaaa gctttctatg ttttctgt 408

<210> 16137  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<40> 16137

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 cccaagaga ggactaagac agggtgacct actgtcact tactgttca ttctacgcc 120  
 cgagggtcta tctaattaaa accttaacaa agacaacaat aagagaagga actcatggta 180  
 ttaagggttg tagaaggact ccaatctctc cacactctt atttgetaat gattttttat 240  
 ttttttata ggagtctatt attcttatgg aggttcttac ttctttatgg caaaatctct 300  
 ggccaatatg ttaattatca aaagtctgag attttcttca tcgacaacac tgaacacaca 360  
 attaacacac acctagcctc tgtacttggc gtaacaaaac 400

<210> 16138

<211> 427  
 <212> DNA  
 <213> Glycine max

<400> 16138

tatatgggc ttgcttagact agcaacatc tagaaatgag ggacaaattg ttcttggctgc 241  
 ttctgttgtt ggggaggatt tgcccatctc agatttggat gattcctcca acctggattg 300  
 ttttgtttgc ttgaaagatt ataattatct tctgtttgct ggtttttttg ttgagggggt 360  
 ctattataaa tgtttgcagc ataggtctca ggttgcctat tgactccagg ttgctgcaaa 420  
 gaaagat 427

<210> 16139  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<400> 16139

tatagaatat ataataaag aacactgaca atataatagt ctatacatgt ttcttttgat 60  
 gagtctaatt ccattcttcc aaggaaggat tttttagatg atatttcaga ttccgtagaa 120  
 gatacacata ttcatggaaa tgattctaaa gaaaaagatg aaggaagcaa tgaggattct 180  
 caagataatg gggctagagg aaataatgaa ctccaagag aatggaaagc ctcaagagat 240  
 catccctcgc acaacattat tggatgata tcaaaagggg taacaactag acattctctt 300  
 acagatttat gcaataatat ggcttttgta tctatgattg aacctaaaaa tataaaagaa 360  
 gccataggag atgataactg gatcattgcc atgcaagaag aactgaatca atttgaaag 419

<210> 16140  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<400> 16140

tgcttagtaa agctadgcac taacaatctc ccccttggc aaatttgc taaaacatac 60

ttagacactt cctgagcagg tacgagcagt tatgcatgtg ggatcagcaa ctttcattat 120  
 cagagtaate aagcacagcg gaaattctgc aagttgcaag tcgttccag gatgtcaaga 180  
 cctccacat gacatcaget ttctgctter gctccccctg tctccatgct cttactgcag 240

<210> 16141  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<400> 16141  
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 gttattatct ctttcttctg cattgaggga aacacttggg ttgccagatc cctccacctt 120  
 tgggtgtatt ctttgaaaga tctgtgccc ctttttgcac atgtttctgta gttgcatect 180  
 atccgaagcc attatactga cactgcctaa cgaaggcaac cattaggtcc ttccaag ct 240  
 agactcggga aggttccaag ttagtgtacc aggtaacagc taccccagta agactttctt 300  
 ggaaggaatg tatcagcaat tctcactctt ttgcgtatgc ccccatcttc cgacaatgca 360  
 tcttttagatg gttcttgggg caagtattcc ccttg 395

<210> 16142  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16142

ntgcctctaa ttctaaaaa attccctctg cctagcatga tgtacggtac aggtaat tca 60  
 cctctgatta ttgtagtgtt gaacgaggtt tatttagttg ttaactatct catgaacct 120  
 tttctctaca tctctcttctt agttgcagac gtccaatata taagccagga aaaaaactt 180  
 attagtcata taaaatcttc acaaattgaa cctaattggtt ccaaattagcc acatgtttac 240  
 ctgctcagga gcacctttgc tagatcgaat ccaatttcca tcagaattcaa tctaagttag 300  
 aggagtcttc ttgtccacaa gattgaattg aagaaagtgg acctccctaa taccagctcg 360

tgctgatca gttcatagga aaagtgaatt tatttatcac cattcatccc acatcataaa 420  
agataatc 428

<210> 16144

agcttggtga gcttggaaga ctctctgcat caatgaagaa gtttagagaaa gatctcaaga 60  
acaagaataa atacgatgta tgttatccat tcttggtgat aaattcttca aactttctgt 120  
tatgggtttc ttgggaactgt gattgcctta cttttgtatg tgtattgggt acctatatat 180  
ggtgcagga tgagcaatac cgcgccaaac taaaagaagtc aaatgagagg actctatcac 240  
ttatcaaagc atgaattgat actgtggtag cagtaagaat gcttcaatcg gcacccaaga 300  
cagctactcc tgcgtaact ggggcttttg gatttgattc gtctctaata tcttgcctac 360  
aggtacctgc tagtataa 378

<210> 16144  
<211> 387  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16144

ttgcttatta agtccgtcta tggattgaaa caagcctccc gccagtggta tataaaattt 60  
catgaggtea tttcttcatt cagctttgaa gagaatgcca tgtatcaactg tatataccag 120  
aaggtcagtg agagtaggat ttgtttcctt gtattataag tagatcatat tttgcttgcg 180  
actaatgata aggggatgct atatgaggtg aatcaatttc tctcaaagaa ctttgatatg 240  
aaggatatgg gagaggcatc ttatgtcata ngcataaaga tccatagaga aagatctcga 300  
ggcatttttag gcttgctcca agaaacctat atcaacaaag ctttagagag aattaacatg 360  
aaagattggt caccaagtgt agctccc 387

<210> 16145  
<211> 421  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16145

ntaaagagcaa ttctcttctt cttctttatca gttctctttg ttgattttagt ctttgcgaact 60

tttattttt tttttatctg ttggaatctt ttctgcatat cttctttatct ttctttttgtt

ttcatcttaa ataattcata ctcatgagtt agagtatttta tcttagatct ttgacatca 300

gtgttctct catgtgtaac ttgtagagtg tccacatat ccttagcaact cttacaattt 360

gacacccctan aatattcata cttctctagg gcagaagtaa tgatattttt agccttttaa 420

t 421

<210> 16146

<211> 416

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16146

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atccagtaga atatggtatg gaaggttggt tgtggggaca aaatcaaatt ttggcaagat 120

tcttgactga gtgagggtctg taagcatttc aaaaaaagat tcttggaat atggaaggaa 180

ggttagttta ttaataatat tcaaagaaag attctcagag tagaaccctg gcagaccaac 240

cctggatggg attcagtttt cttctcttgg ccaagggcag aaggaaagcc ttgtgtctag 300

attctctgaa gtggaaatta agtctgcagt ttgggcttgt agtggagata aaagccctgg 360

cccgatgggt ttgaacttca actttatcaa gtagttntgg gaaattctaa aacctg 416

<210> 16147

<211> 390

<212> DNA

<213> Glycine max

<400> 16147

agcttgatag gttaaagtct cagcattctc aggtgtctat aaacaaattg ttatccatgg 60



ctatgcgaga catcttgcca aacaaagtca ggtaacgat aactcgctg tgctttttct 120  
 tccatgctat atgtagcaaa gtcattgac cagtaatgtt tgatgagttg gaaaatgagg 130  
 ccacaattat actgtgctg ttggagatgt attttcccc tgctttcttt gacatcatga 240

<110> 16148  
 <111> 427  
 <112> DNA  
 <113> Glycine max

<123> unsure at all n locations  
 <400> 16148

tgtaatcgat taccatata ctgtaatcga ttacottagt tgattttcag aaaataactct 60  
 caacagtcac atgtttttac ttggttcttg aatggccatc aaaggcttat atatatgtga 120  
 cttgagacac gaatttgcta agagtttttc agaacaaaaa ggtcttatcc tcttaaaaag 180  
 caaaatcggt tttctctctt acaaattcct tggccaaaac acttgtgatt caataaggat 240  
 ttatttgagt gctcaaattg ttcaatctat ctctttcaag agagattact tcttttcttc 300  
 ttctttatcc tgaaaaagga ttaagagacc gagggctctt tgttgtaaag aaatctgaac 360  
 acaaaggaag ggttgcctt gtgtagttca gatcttgtaa taggccttta caagatagtg 420  
 gaactct 427

<210> 16149  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<400> 16149

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 aaatatctta agaagggggg gggggttgaa ttcatatatt ccaaaactact tccccaatta 120  
 aaaatctatt acacttttta atcaagttat gaattccctt aatgataatc tcttaaaata 180  
 ttaattcaaa taaaacaatt tgaatatgaa taaaaaadaa taatatataa aggaagatta 240  
 atggaagcga gaatgcaaac tgggttttat actggttcgg ccacaccctt ggccttaagt 300

ccagtccecca agcaaccgcg ttgagagttc cactatcttg tacattgctt ttacaagttc 360  
 taaacacaca atgacaatcc tcca 395

<103> residue at all 11 locations  
 <400> 16150

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 atgaatttatg aagccaggaa cattctatgc cttgcacaaa agtccctcagc tttttaagca 120  
 aatgctaattg gtatctgggt ttgacaaaata ttatcagatt gcaaggtaat attttcgtct 180  
 tatgtttgag tctcttattg tagcttggct tctcttaaga gaatatgtta ttgtccctca 240  
 tgtatgtctt tttctctttt ctctcttaag tttctccct atattaatat gcattttgtt 300  
 taagtgactt tcataaacta agaatataga atgcttggtt ttgtaagcta tactaaactt 360  
 aaaattgaaa caattatgat gcaagtgact tttctttttg gataaaatgc a 411

<210> 16151  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<400> 16151

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 tcaattcacc agtgggcttt cctctctgtg ccagcctctt gggatgttcc cagcctttga 120  
 tgacagcttt ccaggtttctg ctatccagtg atttgaggaa ggccaccatt attgctttcc 180  
 agtatccata gttgcttcca tcaagaattg gtggctctgt cactggtcct cctctcttct 240  
 ccattgtcat cagaatttat ctcccagat ctcaactctgt gatttcagat gttggtctgt 300  
 ataccaattg aaattctgat accaggggac agatgtctga caggatgtca cyacatcacg 360  
 ctccagaaca tgcagattgt atgtgt 386

<210> 16152  
 <211> 391  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16152

agctttttcc ttgttgggaag gcaacgacaa agggatctca gatagtttca ggcaagcttg 60

ttttaggtta aacagaaat attttttaa ttgttttca taacaaatca tttaatttca 120

aactttctgt gtttcatta ggtatcttgg attaccgtag agcatccaac gaggatccct 300

gtagaggtgt atgtgcaatgg aatggtctct caactgatga taactagtgg gaggatttga 360

atcaactgtg tgaaaaactac caacttgagg a 391

<210> 16153

<211> 417

<212> DNA

<213> Glycine max

<400> 16153

tgatgagaaa taaatgtttt gcttgggtaca acatctatgt tatttaatga gatcattaca 60

ttatttgtgt cttaatagga agtgaaggac atacattaga ggaagccaaa tctatcaatc 120

tacacttgag tgcattgggg aagtgtatta acgcacttgc agagaatagt gcacatgtgc 180

catttcgtga ctacagcttac tagattgcta cgtgattcat ttggaggtaa gattcagtga 240

gtataataat tcatattttg tctttgttca ttatatacaa gcagtaagat ttggcaaat 300

actcttctca actttcagga cgtgagacag atgaagtcca gcccataacc gatgctctgc 360

ctaactctga acagtaagct gctaatgtg tctttgatgc attttagaag tctaata 417

<210> 16154

<211> 397

<212> DNA

<213> Glycine max

<400> 16154

agcttcatga aaaagatggc ctacgcaaat tctttatttc cagaaggaaa tctatcaac 60

agacctccaa tctttaatgg agaggtttac caactctgga aaacccgaat gcaaattttt 120

atcgaggcaa tagatctaaa tctctgggaa gcatagaaaa tagtgcctta tataccacac 180

acagtagaaa gagtttcaat agatggtagt tcatcaagtg aaagcataac catagaaaaa 240  
 cctagagata gatggctctga agaggataga aaacgagtag aatacaacct aaaagccaaa 300  
 aacataataa catctgccct aggaatgggt gaatatitca gagtttcaaa ttgtaagagt 360  
 attttttttt tttttttttt tttttttttt tttttttttt tttttttttt

<212> DNA  
 <213> Glycine max  
 <400> 16155

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 ttgttgggtg ttatgatcaa gatgtggttt catcagaaat ggggtggattc gatgaaactt 120  
 tgccttgggt ctacgcaatt ctcaagtaatg gttaatgagg attctttggg acctatttct 180  
 cctaggagag ggctaaggca gggtagacaa ttgtcacctt acctgttcat tatttgcact 240  
 gaaggtcttt ctcccttct aaaaaaatct gagaggagtg gtgagttaca tggatatcaag 300  
 ggtgttaaag ggtccctgt cctctcacac cttttacttg ttgatgattg tttttgtttt 360  
 gcagggtaaa tgatattgag catattgctt tgaaagctat totagattcc tatggtgaaa 420  
 attctg 426

<210> 16156  
 <211> 384  
 <212> DNA  
 <213> Glycine max  
 <400> 16156

agcttttaaaa gatgggttaa gattttgtta aaacataagc acttagacaa tgaaggaaag 60  
 cgggagttgc tgcacatgat gtccaaagt atgtcaaaga ataagatcgg gctgcacaat 120  
 gcataagtc aataaaaatg tcaaatgaag cattgaagct gcaggatcca cgatgtcgga 180  
 tacgatgtcc tgacatcttg cccgaaaata ctggacacat gaatctgtta tatctttaac 240  
 agattattgt gcaattagca agagataaga agatctatct ttatgaacga attaaaagat 300  
 aattaaagtt cgaatttcaa agtagaagag ttcttccagg gattaaagat tatagataaa 360  
 aactaaaaga tcaaaatgta tctt 384

<210> 16157  
 <211> 333  
 <212> DNA  
 <213> Glycine max

aaacatcat ggggagaa tggggaag tggggaat tttttatcat ttgggggga 120  
 aaaatgggtgg cattatttgg ataattcttct tgggccaccc ataccggcag aatatctctt 180  
 ttttaatgaa ttggaaccac acacttcttt tgtacaactg gcatatgaag cagcttcaac 240  
 acatttgggtg aagtaaccga tctgcaccaa aatgaagcga cgtctattcg gagcccttgg 300  
 ctcaataggg ccaatcacat ctattcccca cat 333

<210> 16158  
 <211> 237  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16158

catagaaact caagcttctc gagaaattcg aatgggttata acgttttccac tcaatangtc 60  
 ctgatgcggc gacatcaac tcatgtagac gctcgaagat tgaacaacgc acgctctcga 120  
 gaaactcgaa tggtcataac atttcgcaca catgtccaaa tctgtgacct aacatttcta 180  
 gacactccgc actggcttga taaagatctt gtcatatcca aactgcagta acatcgcgcg 240  
 cggcatgcct atataagctc gcgagcaacg gcaactcccc ccaacat 287

<210> 16159  
 <211> 332  
 <212> DNA  
 <213> Glycine max

<400> 16159

agcttcaaga aaaagatggc ctcaagcaaat tctttatttc cagaaggga ttttatcaat 60  
 agactccaa tttttaatgg agagggccac caactactga aaaccggaat gcacattctt 120  
 atcgaggcaa tagatctaaa tatctgtgaa gcaattgaca tagggcctta tataccacac 180

acagtacaaa gagtttcaat agatggtagt tcatcaagt aaagcataac catagaaaaa 240  
 cctagagaca gacgggtctga agaggataga aaacgagtag aatacaacct ataagccaaa 300  
 aacataatat catctgacct aggaatggat gtaatatcca gagcttcaaa ttgcgagagt 360

<212> DNA  
 <213> Glycine max

<400> 16160

tgtaggggta aagctctcag attgtgacgt gtttattcaa caattgttag tctgggctat 60  
 argagacata ttgcctaaaca aagtcagggt agcgataact cgtttgcgtt tttttctcca 120  
 tgctatatgt agcaaaagcca ttgatccagt caagtttgat gagttggaaa atgaggccgc 180  
 aattatactg tgcaggttgg agatgtatct tccccctgct ttctttgaca tcatgattta 240  
 cttgattgtg catctgggtc gagaaatcaa atgttggtgt cctgtttatc tacaatggat 300  
 gtaccgggtt gagcgataca tgaagatctt aaaagggtat acaaagaatc tatatcatcc 360  
 agaagcatct attgtagaga ggcacatt 388

<210> 16161  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<400> 16161

agctttgagc aaattcaaac gacaataacc ttttactcgg atgtctgatt gactcccgta 60  
 atatatcgag acgctcaaaa ttgaatgttg aacctctgag caaattcaaa cgacaataac 120  
 tttttaactcg gatgtctgat tgagttccgt catatatcga gacgctcgaa attgaatgtt 180  
 gaagctctga gccaatcca acgacaataa ctttttactc ggatgtctga ttgagtcctg 240  
 tagtatatcg agacgctcaa aattgaatgt tcaacctatg agccaattca aacgacaata 300  
 actttttact cggatgtctg attgagtcct ataatatatc gagaggctcg aaattgaatg 360  
 ttgaacctct gaaccaattc aaaagacaat atctt 395

<210> 16162

<211> 429  
 <212> DNA  
 <213> Glycine max

<400> 16162

aaagattatg gaaatggtatgata tgaaggaatgaa gaaatggtggtt gaaatggtggtt

tttaacatt caattctgag agctctcgata tattacggga ctcaatcaga catccgaatt 31  
 aaaagatatt gttcttttgaa ttggctcaga ggttcaacat tcaatttoga gcgtctcgat 320  
 atattatggg acctcaatcag acatccgagt aaaaagttaa tgcggtttga attggctcag 330  
 aggttcaaaa tgaatttctg agcgtctcga tatattacgg gactcaatca gacatccgag 400  
 taaaaagtt 429

<210> 16163  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<400> 16163

tgtaaggtta aagtctcagc attgtcatgt gctcatgcta caattgttag ccgtggctat 60  
 acgagacatc ttgccaaaca aagtcaggtt cacaataact cgtctgtgct tttcttcca 120  
 tgcctatagt agcaaagtga ttgatccagt aatgtttgat gagttggaaa atgaggccgc 180  
 aattatactg tgcagttgg agatgtatct tccccctgct ttctttgaca tcatgattca 240  
 cttgattgtg catctgggtc gagaaatcaa atgttgccgt cctgtttatc taaggtggat 300  
 gtaccgcatt gagcgataca tgaagatctt aaaatgggtat acaaagaatc tatatcgtcc 360  
 ggaagcatct attgttgaga ggtacattgc agaagaagcc attgaatttt gttcagaata 420  
 att 423

<210> 16164  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<400> 16164

agcttctaata gtatgtaaga tgtgtattgc ctctaaatga gctacagggtg cataagtttc 60  
 ttgttagtct attccttctt gttagagagta ttcttttagca actaaccttg ctttggtttt 120  
 cacaacctt caattttcat tcagtttggg ttgaaagaact cttttctctc caatagcttt 180  
 .....  
 .....  
 .....  
 atcaactaga tcaccaataa tttaactttt tg 342

<310> 16165  
 <311> 327  
 <312> DNA  
 <313> Glycine max

<400> 16165  
 atcttaagct ccttcaactg cacaagactc ttaatatattg aagagtatac atgtggaacc 60  
 ttcaactgac gaagacactg acagaaactc atcttatcct ttttggacaa agtatgacaa 120  
 gctgctggca ggttgattgt attcccatca gaccttggat gcaactgtga tcgtatcccc 180  
 atcttagata catcttgacg gagattcaat ccatacttca tcttgccctg aatgtcaaag 240  
 agcattccag tcaactctgc acgtacattt ttcttctgat gcatactcgc cgaccaatgc 300  
 cttacgctta gatgacacca tgactgc 327

<210> 16166  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<400> 16166  
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 gcatatagag acgctcgaaa atgaacaacg gaagctctcg agaaattcaa atggtcataa 120  
 cttttcacac tgacgtccga ttcaaggctta taatatattg atatgctcaa aaataaacat 180  
 cggaagtctt agagatattc aaatggctat aattttttcac atggatgtcc gattccggcg 240  
 cataatatgt cgagaggtc aaaattgaac atcggaaggt cttgagaaat tcaaatgtgc 300  
 ataacttttc aaacaaatgt ccgatttaagg ctatataat atcgatacgc tcgaaattaa 360



acaacggaac tc

372

<210> 16167  
<211> 410  
<212> DNA  
<213> Glycine max

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tcttatatgt agcaaagtca ttgatcctgt taagtttgat gagctggaaa atgaggcctc 180  
aattaractg tgcacgttgg agatgtatct tcccctgtgt ttctttgaca tcatgattca 240  
cttgattgtg catcacgtta gagaaatcaa atgtttgtgt cctgtttatc taaggctggat 300  
gtacccgggt gagcgataca tgaagatctt aaaagggtat acaaagaatc tatatcatcc 360  
aaaagcatct attgttgagc ggtacattgt agaagaagcc attgaatttt 410

<210> 16168  
<211> 387  
<212> DNA  
<213> Glycine max

<400> 16168  
agctttatag aaacctttgc tttttttgct agacttgaag ctataagaat catgctttcc 60  
tttgcctact ataaaaatat aaagttatct caaatggacg ttaaaagtgc tttcttaaat 120  
ggctttattg aagaggaaat atatgtcaaa caacctcttg ggtttgaaga tcatactctt 180  
ccagaccatg ctttcaaact taaaaaagct ttgtatggtc taaaacagga accacatgct 240  
tgggtgtgaca gactgagttc atttctctta gaaatggttt tattaaagtc aaagtggata 300  
caactctttc taaatgagaa gttggcaaag atttcattat agttcatatg tatgttgatg 360  
ataghttttt tgaagctact aatgaat 387

<210> 16169  
<211> 393  
<212> DNA  
<213> Glycine max

<400> 16169

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aatgttgatg ttcaaaggac acttttaaate cctttttaat caactgacct acacttagca 120

agttttggtc aatgttaggt acataaagaa catctgatat tagtttgata cctgaacacg 180

agttttggtc aatgttaggt acataaagaa catctgatat tagtttgata cctgaacacg 180

agttttggtc aatgttaggt acataaagaa catctgatat tagtttgata cctgaacacg 180

agttttggtc aatgttaggt acataaagaa catctgatat tagtttgata cctgaacacg 180

aaagaaacag ttggtctctc ttgtcttgat tag 240

<310> 16170

<311> 432

<312> DNA

<313> Glycine max

<400> 16170

ctcacgettc atgcttaact atgtatggca aaacttcatt attgttggtc atgacataca 60

agtgagettg taacagatct tctacacttg gagtgatcac atgcagtcct ttggaacctt 120

taccacccac ttgtcatca tgccgagact caggaagccc aacaggttta gccttctcta 180

agtattctga acaaaattca atggcttctt ctgcaatgta cctctcaaca atagatgctt 240

ctggacgata tagattcttt gtataccctt ttaagatctt catgtatcgc tcaatcgggt 300

acatccaccg tagataaaca ggaccacaac atttgatttc tctgaccaga tgcacaatca 360

agtgaatcat gatgtcaaag aaagcagggg gaaaatacat ctccaactga cacattataa 420

ttggggcttc at 432

<210> 16171

<211> 393

<212> DNA

<213> Glycine max

<400> 16171

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tggtgagcat agatccaaac tttctctgtc ataagttgat agtaaacctt ttagtgaaac 120

ctgtgtgtca aagaaggagg aaaatgaetc tgaatgctt agaggaaatt gaaaggcaac 180

tgaaggagtt gtaaggaaa ttgaaaggca agtcaacctt tgaaggaaa cttctatacy 240

acttgggtgg ccaagatcat cctagttaac aagcataacg gaaaatggag aatgtgcatt 300  
aactacttga totaaacaaa cattgtctga aagactcata tccgttccc gacatagata 360  
aaatggggga tagatcttcc gactactgat att 393

taagctcttt caattgcaca aggtctttaa tatttgraga gtatccttgt ggaaccttta 60  
cccgacgaag aaactgacaa aaacttatct tctcttctt ggacaaagta tggcaggtct 120  
ggggcaacta aattttcttc ccacagacc ttggatgcaa ttgtgatcgt atgcccata 180  
cagcgagatc ttgacgggta ttcaagccat ccttcgtctt gccttgaatg ttaagaagcg 240  
tcccaatcac actgtcacia acattttctt ccacatgcac aacatcaata caatgtgtaa 300  
cgtcaagatc agaccagtac ggaagatcaa agaaaatgga cctcttcttc catatgcaac 360  
tcttactttt atcttcttct tgggtcttcc caaatacaat attcaggtgt tgaaccgcct 420  
catata 426

<210> 16173  
<211> 331  
<212> DNA  
<213> Glycine max

<400> 16173  
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gaaagtattg aacaaattag gaaacccaat aaccccacaa attgtcattc aatcaaaata 120  
tagttgatcc atatatcttt gatttogaac aaaagttaag ggtagaatga ctcttttccc 180  
tttatttgac ccttgatttt gggtctgac ataacattac tgcaatttct tggattcatt 240  
aaactcttaac tattttttgt gagtcctgat gaaatadaat ctctcggact ccacatgca 300  
atatctgtca ctacaaaat gtgaaaaag ttctctagat ctcaacattg tcttccatct 360  
ctctcgttat gaatacaaaa a 381

<210> 16174

<211> 389  
 <212> DNA  
 <213> Glycine max

<400> 16174

gagatgctga ggaatttcaa acgacataaa ctttttactc ggatgtctga tttagtctcg 340  
 tcaatatttg agatgtctga aattgaatgt tgaagctctc ggccacttca aacgacaaca 300  
 acaatttact cggatgtctg cttgagctcc gtaacatata gagacgtctg aaattgaatg 360  
 ttgaagctct cagccaattc aagcgacaa 389

<210> 16175  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<400> 16175

tagtaaaagt aggcactaac agaatttgc tcaatgcata acattcaatt tcgagcttct 60  
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 taagagcttc aacattcaat ttcgagctc tcgatatgtg acgggactga atcagacatc 180  
 ccagtaaaaa gtcattgtcg ttgaatttg ctcagagctt caacattcaa ttccgagcgt 240  
 ctcgatatgt tacgagactc aatcagacat ccgagtaaaa agatattgtc gtttgaattg 300  
 gctcagagct tcaacattca atttcgagca tctcgatata tgacaggact caatcagaca 360  
 tccgagtaaa aagttattgt cgtctgaatt ggctcagagc ttcaacatcc aatttcgagc 420  
 gtctcg 426

<210> 16176  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<220> unsure at all n locations  
 <400> 16176

tgtaaaaagg gaagcaagtt aaaaactcct ttcattttta aaacgttggt tcaactacaa 60

aaccoccttga actacttcac atcgatttat ttggtccctc tagaactatg agtttaggtg 120  
gaaattacta tggcttagta atagtggatg attactcaag gtccacttgg acttggtttt 140  
tgaaaaccaa aaaaagaagg ttttgatgct ttccgcaaac ttgccatggt gattcaaaat 240  
jaaaaaggto tcaacattgt ttcaattaga agtgatcatg gaagtgaatt tcaaaatgat 3 0  
tcttttgaaa acttttgtga agaaaatgga atttaccaca aattttatgc cccaagaaca 3 0  
tctcaataga atggtgttgt ggaaaggaaa aatagatccc ttaaagaagg tgcaagaacc 4 0  
ct 4 2

<210> 16177  
<211> 336  
<212> DNA  
<213> Glycine max

<22> unsure at all n locations  
<400> 16177

tggcttttac caaagagatt ttactctctg gtaatcgatt accagtggca tgttttgttt 60  
tcaaaaagct tccaactaaa ttacaacat tccaatcaat ttcaaaatgg tgtaatcgat 120  
tacaatatat tggtaatcga ttaccagtga gtttgaacgt tgaaattcaa attcaaatgt 180  
gaagagtcac atcccttcac aaaaatgctt tgtgtaatcg cttacaatga tttggtaatt 240  
gattaccagt gataagttnt aaacaaaaat caaaagatgt aactcttcca atggttttca 300  
agtttttcta aaggttataa ctcttcta at ggttntcttg accagacatg aagagtctat 360  
aaaagcaagt ccttaacttg cathtt 386

<210> 16178  
<211> 426  
<212> DNA  
<213> Glycine max

<22> unsure at all n locations  
<400> 16178

tagtccctag cttagccgat aaggttttcc aaaagtgtgc taaggaaactt aacatttcta 60  
tctgacacaa tggccctagg aaacccatgg agtctcacia cttcccttaa aaagagtttt 120  
aagangtggg aagcatcctc cctcttttgg catggtaaaa autcttccat ctggctaaac 180  
ctatccacca ccacaaagat aaactcaca cctcttttgg ttttagaaat cccaaggaca 240

aagtccatac taatgtctac ccaaggtgca gatgggatgg gtaaggggtgt gtatagccca 300  
 tgaggcatca ccttagactt ggcttgtaaa caagccacac acctagtga aagcttatyg 360  
 atatctttct tcacacggng ccaataaaaac ttgtctctga gtatgacaag ggtcttctct 420  
 atccca 480

<210> 16179  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<400> 16179  
 agtttgtgtt agttgtatgg ccttagccaa ggaaaaacaag aacaaccaaa cactttcata 60  
 aaagagtaat caggttggtt gttgaatagt ttctgataag gaacttcatt atttatagca 120  
 tatgagggca atctgttgat gaggtaaatg cttgagataa aggcattggtt ccaataatga 180  
 aaaggtaact tggcttgaga tagaaaagt agacccaact ccacaacatg tctgcgcttg 240  
 cttctacta ctccattttg gtgatgagta tgatgacata ttagttttgt ctgaatacca 300  
 tgcctctgca agaattttgt gaaaggtctg aactcccttc cccaatcaaa ctgaatagcc 360  
 ttgatagaca tattaaactt atttgaaa 388

<210> 16180  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<400> 16180  
 ttgcttataa tatatcgata cgtcaaaat taaacatoga aaactctoga gaaattcaaa 60  
 ttggcgcgaac ttttcacacg gatgtccgat tcggtegcac aatatgtoga gaggtcogaa 120  
 attgaacaac ggaagctctt gagaaattta gacggacata actcttcaca cggatcgacg 180  
 acccagcga accacatgaa tagacgtca caatcgtaca tcggtctgtc ctgagaaatt 240  
 caaacgatca taacatctaa catggatgtt caatcaaggt tcgtcacata ttgagacact 300  
 ggaacttgta ctgcgtgagc tctgggtgca ttctagaggt catatctgtt taacaccgca 360  
 ggcgactaag acttaccata t 381

<210> 16181  
 <211> 355  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <224> 16181  
  
 aaatttagc tgaatcggac atccgtgtga aaagratgac cttttaatt ctcaagagct 60  
 tccgttggtt aatttcgagc ctctcgacat attatccgct cgaatcgac atacgtgtga 120  
 aaattcatga tcaatttgaat ttctcgagag ttcccgatgt ttaatttoga gogtatcgat 180  
 atattacaac cctgaatcgg acctcagtgt gacaagttat gaccatttga atttgacgag 240  
 agttccgct gctcaacnnc caacatcact atacngacg cgcaccaatc ggacattoga 300  
 ctgaaatgtt atgaccattt ggattttctc agagattcog ttgtttattt ttgag 355

<210> 16182  
 <211> 414  
 <212> DNA  
 <213> Glycine max  
  
 <400> 16182  
  
 ttacatccca tgttgtgata aaatctttta tataattagt tatgttgagg ttatgaaatg 60  
 atgattcaaa ctgtgagtat gtgataaatt gaacatgtga cggatgatga aatacatgtg 120  
 tattgagatg agatgtgtgt attgagttgt gaactataaa ctatgcaatc acacaattgt 180  
 aagacccttt aaggggcgacg agtattgtga tgggatccac tgtgggaatc cgacgagtta 240  
 aaatgatttt gaaaacaatt gagtaaatgt gtgtatttca tagttcatag ataaagtgtt 300  
 tatgatccat gaggtgtgat aacatgttaa attgtgatta taccattgog attaagatta 360  
 agtgratgtg ataaattgag tatgtatatg attgagatat atatgtacat tgaa 414

<210> 16183  
 <211> 384  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 16183  
  
 agcttcaaca ttcattttg agcgtctcga tatatgacga gaattacatc tacatccgag 60  
 taaaaadtha taccctttg aatttgcga gagtttcaac attcaatttc gaggatctcg 120

ctatattacg ggactcaatc agacatccga gtaaaaagtt tgttgtttga attggctgag 180  
 agcctcaaca ttcaatttcg agcgtctcga tatattraagg gactcaatca aacatccgag 240  
 naaaaagaaa tgggcgcctgg aagttgctca ggcacatcgc actgaattgc gagcgtctcg 300  
 atatattacg ggactcaatc agacatccga gtaaatagtt attgtctcgc gaatatgcct 360  
 agaggctcaa cattcaattt cgag 384

<210> 16184  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16184

ttgaatgcac tattcaatgg agttgacatg aacattttca gactgatcaa cacttgcaca 60  
 g'ggccaaag atgcatggga gatcccgaaa atcactcatg aagggaacctc caaagtgaag 120  
 atttccagat tgcaactctt ggctacaaaa ttcgaaaatc tgaagatgaa ggaggaagag 180  
 tgtattcatg acttccacat gaacattctt gaaattgcc aatgcctgcac tgccttggga 240  
 gagaggataa cagatgaaaa gctggtgaga aagatccctc gatccttgcc taagagattt 300  
 gacatgaaag tcactgcaat agaggaggcc caagacattt gcaacatgag agtagatgaa 360  
 ctcatgggtt ctcttcanac ctttgagcta ggactctcgg atagggctga naagaagagc 420  
 aag 423

<210> 16185  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<400> 16185

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 tagaagtgc aaaaaccattc tctaggtttt tctttagttc atatctcga tgaacacatc 120  
 gaggaagctt ctcttgggga ttctcttcca aacctgattt ggcaagguct ttatcaatta 180  
 ttcccagttt ctgcctctctt ctctcgcacc ctttctcttg aattgggta tcaaacacaa 240  
 ttgtctctt tctctctctt ttctgagacc tataatcatg gcttactcna tttctatga 300



tagattgaag actatggagt tcgagagcac gggattcagc atatttctgc aaattgattt 360  
 tccaaggtgg tgggtgggggt gtatgtactg aaacttg 397

<210> 16186  
 <211> 518  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16186

tgtgttgggtt acctctctct tgactacac aagaattacc gggttgagtc ttctctgtgg 60  
 atgtcttaact ggtttagccc catctctctaa atttatttga tgcatacatg tggatgggct 120  
 aataccagga angtcggcca gggcccagcc tataaccttc ttatgcttct tgagaactga 180  
 taacagcttc tctctcttgc cattagcaag ggaggaagat ataattactg gaaaactatt 240  
 gctatcatcc angtaagcat attttaaatt tgatggtaga ggctncaatt ctgggtgtggg 300  
 cyattagata atggtagaaa gagatgggtt ctcagcctgt acctcataca gaaagtcaga 360  
 agtatgtgta ctctctga 393

<210> 16187  
 <211> 326  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16187

atgcctntgat gcaaattcaa atgacaataa ctttttgagtc ggatgttoga ttgtgtctcg 60  
 taggatatcg agacgatcaa acgacaataa ctttttaatto gaatgtctga ttgagccctt 120  
 taatatatcg agacgctoga aattgaaaac agaagctcta tgaaaagtca aatggacaaa 180  
 accttcaatt cggatatctg attgagtcgc gtaatatato gagacgctcg taattgaaaa 240  
 ctgaagcttt gaggaatttc aaacgacaat aacttttgaa tctgatgtgc gattgtgtcc 300  
 catacgatat cyagatgttc gttatt 326

<210> 16188  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<400> 16188

tcaaatatcag aacatttcca ggggtgctgga actacttcac atggacttga tggggccctat 60  
gcaagttaga agccttggag gaaagaggta tgcctatggt gtgtgtggatg atttctccag 120  
atttaccttg gtaacttga tcagagagaa atcagaaaac ttggaagtat tcaagaggtt 180  
agttttaada ctctcaagag aaaaagattg tctcatcaag agaattcagg gtaaccatgg 240  
tagajaattc gaaaacagca ggttcactga attctgcaca tctgaaggca ttaactcatg 300  
attctctgca gtcattacac cacaatagaa tggcatagtt gaaaggaaaa ataggactct 360  
gcaagagget gttagggtca tgcctcatgc caaagaactt cctataatc tctgggctg 419

<210> 16189

<211> 412

<212> DNA

<213> Glycine max

<400> 16189

tgtattcata gaacatttga tattagtatt ttgttattaa aaaatatttt tggcccctaa 60  
ttattttcga taaaactatc aattctgcaa caaaatggct catgtttgta atgcaagaaa 120  
agtgatggat aagatagaag aaacctgaa tatttttggc attggaatag acattccacc 180  
catttcatct agataaagac aacgtggtct atcataacta gttcccgctc agaaaaaaag 240  
cacagcgcca aaaacgcca taaatccatg acatgggatt ctatttcaca acccagcttg 300  
gtagaggggtg tttcttctc cacctataa aaataaaaga gcgtcccttg tatattccca 360  
aaaaaactaa tgtaaaatgt aatttacatc taggattact ctttacgaaa tataatagga 420  
tg 482

<210> 16190

<211> 412

<212> DNA

<213> Glycine max

<400> 16190

tggaggcatg acccttatgg atctaaaatt tagttgttta gtgatgataa gaggcttata 60  
tatttgtttg atcaaaaaaga gcttaacatg aggcagagga gatugttaga ctctcttaag 120  
gattacgatt ttgagcttag ctatctccca gctaaagcca atgtagtagt taatgcctta 180

agtagaaaat ccccttcaaatt gtctgctttg atgggttagag agttggatct cttacagcag 240  
 ttttagagaca tggagtttggc atgtgagatt acctctagta gcattaaactt ggggtatgttg 300  
 agagtcacca ggaactctt gagcgagatc cgtgagggtc agaagtctga cccattcttg 360  
 ttagttcagt tagagtcctt agttgcaggg agaaagagta gtcttagagt gg 420

<213> 16191  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<400> 16191  
 tctcgatata ttagtcaact gaatcagaact tccgtttgaa aagttatgac catttgaatt 60  
 ttttgagagc tccggttggg caattttgag cgtctcgata tattatgcgc ctgaattgaa 120  
 cttccgtgtg attagttatg accatttgaa tttctcaaca gctttccgttg tccaatttcg 180  
 atcgctctcg tatattatgc gtcagaatcg gacttccgtg tgacaagtta tgaccatttg 240  
 aatttctcga gagcttccgt tgttcaattt caagcttctc gatatattat gcaccttaat 300  
 cagaacttccg tgtgaaaagt tatgaccatt tgaatttctc cagagcttcc gctgtttaat 360  
 tccaagcttc cggatatatt atgcacctga atcagaactc cgtgtgataa gttatgac 418

<210> 16192  
 <211> 440  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16192

tatagacaac tcaagcttgc tttgaaaact tccattcacc ctaggcctta catagctaca 60  
 atgggttagt gagaatggag agctaattgt agatagacaa gttttgatat gcttctccat 120  
 tggaaaatat gttgatgaga tactatttga tgtagtccct atggaggtta gcatctctt 180  
 accttgaadg ctttggcagt atgataggga tgcgttccac aatgggttga caaacaaatt 240  
 tccatttga cataaagggc aaaaggttac ccttaaacct ttgtctccaa gtgaggttgg 300  
 tgagatcaca acaaatga gagtgaaga agacaagag agaaaaaga agaaaaataa 360  
 aatttatgaa aagagagaga aacaagaaag gagagataag aaagaaaaata gtgaggttaa 420  
 aaaaaggaat gaaactgaaa 440

<210> 16193  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16193

tacagctctgt ttcattgaaga agaggatcat ctatttgagg gaagagtcgc aagtttgaga 60  
 ataggatcta agaaactctc acgrgaaaga gaggagaaat ataaagaaaa targogaatg 120  
 ttctgaaaga ttctttctatc aagaagagaa ttccaatttc tcaattttctc gaaggaaatt 180  
 gaaattccac atttttagtt gttaaaaatt atgttttaaa atttcaaaaat tttaaattctt 240  
 cataacacac catccccaca atggaattta gattatagaa agtgaaattc tctgatcaat 300  
 aattgtccac aattaaaatt ctttatccaa aggtactctc aggettactt tacaccttcc 360  
 tatgtatgtt gaactcacta ggcttgctta ccacactntt agaagttcaa tattcact 418

<210> 16194  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16194

agcaatgncc cttgatatat tngagggact catgttccact atgattgaca aattccttgg 60  
 gataaaggta gtgttgccat gttttcaaag cccgtactaa ggcatacaac tccttatcat 120  
 aagttgaata gttaagggtg ggaccactta acttttccact aaaataagca attggatggc 180  
 ctctctgcac caacacagcc ccaatcccaa catttgaage atcactctca atttcaaaag 240  
 atttttgaaa gttnggcaac gcaagtatgy aggcattaga tagcttttgn nnaagaacat 300  
 tgaaagcttc ttcttgcttc tctccccatt tgaaaccagc atttttcttg agcacttcat 360  
 tgagaggtgc taccaatgtg ctaaaaacct tcacaaatcg tctataaaaa ctgctaa 418

<210> 16195  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 16195

ntatgcttaa gtaagtatgg caaaacttca ttactgttgt tcaagacata caagcgagct 60

tgtaaacaaat gtcttacctt tggagtgatc acatgcagtc ctcttaaaac cttaccaccc 120

actatgtcat tatgcctaga ctacaggaagg ccaatagggt tagcctcttc taagtattct 180

gaagaaaatt caatggcttc ttctgcaatg tacctctcaa caatagatgc ttctggagga 240

tatagattct ttttataccc ttttaagatt ttcatgtatc gtccaaccag gtacatccac 300

catagataaa caggaccaca acatttgatt tctctgacca gatgcacaat caagtgaatc 360

atgatgtcaa agaaagcagg gggaaaatac atctccgact ggcacagtat aattgc 416

<210> 16196

<211> 334

<212> DNA

<213> Glycine max

<220> unsure at all n locations

<400> 16196

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atataacgag acgctcgaaa ttgaatgttg aagctctgag cgaattcaaa cgacaataac 120

tttttactcg gatgtctgat tgaggcccggt aatatatcga gagctctgaa attgaatggt 180

gaagctctga gccaatcca acgacaataa ctttttactc ggatgtctga ttgactctcg 240

tcacatatcg agagctcga aattgaatgt tgaagctctg agcgaattca aacgacaata 300

actttntact cggatgtctg attgaggccc gtaatatac gagacgctcg aaattgaatg 360

ttgaagctct gagccaattc aaac 384

<210> 16197

<211> 385

<212> DNA

<213> Glycine max

<400> 16197

taaacattca acttcgagcg tctcgatata ttactgtagt ctcaatcaaa catccgagaa 60

aaaagttatt gtctgttgaa ttgctcaga gcttcaacat tcaatttcga ggcctctgat 120

atatgacagg actcaatcag acatccgagt aaaaagttat tctcgtttga attagctcag 180

agcttcaaca tttcaattcg agcgtctcga tataacagga aactatataa tacatccgag 240

taaaaagtta ttgtcgtttg aattggctca gagcttaaac attcaactgc gagcgtctcg 300  
 atatatgaag agtctcaatc agacatccga gaaaaaagtt attgtcgtat gaattggctc 360  
 agaggttcca cttcaattt cgagc 395

<210> 16198  
 <211> 379  
 <212> DNA  
 <213> Glycine max

<400> 16198  
 tttcatgcac tctataactc ggatgtccga ttcaggcgca taatatatcg agacaattga 60  
 tattgaataa cagaagctct cgagaaatcc gaattggctat aactttttcac acggatgtcc 120  
 gattcggggcg cataatatgt cgagacgctc gaaattgaac aacggaagct ctcgagaaat 180  
 tctaattggtc ataaattttc actcggagga ccgattcagg cgcataatat atpgagacgc 240  
 tcgaaattga acaacggaag ctcccgagat attcaaatgg tcataacttt taactcagag 300  
 gtcagattca ggcgcataat atatcgagac gctcgaaatt gatcatcgaa agctctctag 360  
 aaattcatat gcgcataac 379

<210> 16199  
 <211> 352  
 <212> DNA  
 <213> Glycine max

<400> 16199  
 gcttgtgcaa atgcaaacgg tattatcttt ttaatttgat gttcagatcg gtcacgttat 60  
 acatcgaaac gctcgcaatt gaaaacagaa gctctgtgca aattcaaacg acaatacatt 120  
 ttaactcgga tgtcagattg agtcccgtaa tatatcaaga cactcgaaat tgagaataaa 180  
 agctctgaac aaattccaac gacaataact ttttaactcg atgtccgatt gagtccagta 240  
 atatatctag acaactgaaa ttgagaatag aacagctgag caaattttaa cgacaatgac 300  
 ctttttaactc gtaggtccga tggagccccg agcgtctcga tatattatgc gc 360

<210> 16200  
 <211> 348  
 <212> DNA  
 <213> Glycine max

<400> 16200

aggtctgtgt ctttttgaca cgctgggttc tacaggggat tcatcaaaga tttctcataa 60

gtcgcctaaa cactcaacaa tctgttgaac aaggatgttg ctttttgtgt ttaataaaga 120

atgtgtgaa gttttaatg atctcaagat caaactagta gctgttccag tgcctatag 180

atttaatgat tctatgatag tgaggcttgt ttgaagaag acacgttga gcatgagatg 240

gaattaaag cctcagccat ggtattacag tctcttttg aagaagaatc caacaatgtg 300

atagaatgac tagtcagtga aaatgaagga gaagagctag cttgtattga agagctggat 360

ggtccagaag ataagtctgc tggtcatgtg atgtttga 398

<210> 16201

<211> 338

<212> DNA

<213> Glycine max

<400> 16201

ttctctgtgt tattagtga cagctccttc aagaatttag catatcttgg aatttgcttt 60

attgcaccca gcagaggtat gttacctct actttttctaa atgtttccaa tatctcctta 120

tttgctcttt ccaatttttt gatggaaatt gctcttggag ggaatggaac agggatatgc 180

tgcttctgta aatcagaatt accagtggaa gattcacctg catagaaatt gttaggtaac 240

ttactcttta catgtttgtc atcagctttt tctggagtag agtaaagttg ggcaggttca 300

tttgccgatg aagaagatgt tgctggttga ggtccttgac acaactctcc tgatctcaat 360

gtaatggcac tcaacttttt aggattct 398

<210> 16202

<211> 413

<212> DNA

<213> Glycine max

<400> 16202

ttgagaaaag tgatgtgaac aagcgggtac tggttatata ctccaagaag accccaattc 60

tgagttcatt tctttgcttc ggttgccttc cattgtcgaa gctcttcaaa ggcggttga 120

ggaattccca attaaaggta gaccacacaa ctgaacgtgt gtccaadaac ctcttgcct 180

ttgagcagtt caactaccca gacaagcctt acttttgcaa ctatcttct tcaattgact 240

ctctgataca cactcagctt gatgtggagt tgctgggtga gaaggaagtg attgggcatg 300  
 aacttgggag tgataaggaa gtggcaactc ttgttaatgg gttatgcaaa catgttgtca 360  
 caaactcaac ttggtaccat cacattataa ataagctcaa cgaaccattac atgaacga 413

<211> 16203  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16203

gggttgcatt ctcaaacatc ttttttggtg tgatggtgaa agtcgggtaa actttgttat 40  
 ttgggtgatgt attggcattc gatgccactt ataagaagaa taagtatcat ctacctgttg 110  
 ttgggttttct tgytggtaat cacaacaatc aaaccatagt ttatgacaca atccttgtaa 180  
 caaatgcaac cgaagagacg tatgttttgt tattagaaca atttgtgcaa gccatgaata 240  
 gtaagaaaact atcaacaacg attactgatg gtgatattgc aatgagaaat gcataagaaa 300  
 gataacttttc aaaacatgcc tangttatgt gcttggcact tgatacgtaa tgcanaagcc 360  
 aatgtaaaca atcctgcatt nttgccaatg ttt 393

<210> 16204  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16204

ttcttatcca aacatatact ttattaaagt tatttcttct tattctcgtc ggaaccatgaa 60  
 tggaggcaag ctataactgc tgctggatct ggatgcgttg cagctttatc acgtgagaga 120  
 tatcttgtga gcaatgatct tcttatagag ttccatcagg tatttgactt caaagaactc 180  
 ctactttgtt ttcgcttate gttcttttgg tatataacac tctagattga gtgtacacat 240  
 cacattacca attractgta tctttattat atgtcttaaa tcttctacat ttccacagaa 300  
 gcagatgcaa ctttagcaag atctgcttct aaaacttata tctataaatt tataaaactt 360  
 aataaattta gtcacatcaa t 381



<210> 16205  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<400> 16205

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 aagttatttg tggctgaatt tgcacaagc tccaacattc aaatttcagc gctctcgttat 120  
 attataggac ttatgcagac atccgagtaa aaagttattg aagtttgaat ttgctcagag 180  
 ttcaaacatt caatttcagag cgtgttcgcta tattacggga ctatatcaga catccagta 240  
 aaagttattt gtcggttgaa ttgctcaga gcttcaacat tcaatttcga ggcctcccat 300  
 atattacggg acccaatcac acatccagat aaaaagttat tggcggttaga attggctcaa 360  
 agcttcaaca tccaatttcg agcgcctcgc tatattatac gaactc 405

<210> 16206  
 <211> 369  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16206

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 ttgtaggaaa catcaagtc ttcaagtgac ttcaaattct caatcccatg caaagtagtt 120  
 agagcattgc tcttcaaaac tagtttaaca atatgacagg aaacctgcaa ggtccaacac 180  
 aattgtatat gggctctccag agcaaatccc taaatgaaag gcatacaact aaaacaaaag 240  
 atattaactt ttctacaaat aaattgcint cattgcattt aaggatcctg tcattcaact 300  
 ttcaatcctg aaatatcaat tcattctcca tgaatcgcag aagtcagcac agcaagcaaa 360  
 taaagacat 369

<210> 16207  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<400> 16207

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acgagacatc ttgccaaaca aagtcaggtt agcgatagct cgcctatgct tttttcttcca 120  
 tggatatatgt agcaaagtca ttgatccagt caagtttgat gagttggaaa ataaggccgc 180  
 aattatacta tgcagtttgg agatgtatct tccccctgct tttttgacat catgattcac 240  
 ttgattgtgt atctggtcag agaaaacaaa tgaatgtggt cgttttatct acggtggatg 300  
 ttttgggttg agcgatcacg gaagatctta aaagggatga caaagaatct atattgtcca 360  
 gaagcatcta ttgttgagag gtacatcca aaagaagcca 400

<310> 16208  
 <311> 372  
 <312> DNA  
 <313> Glycine max

<400> 16208  
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 taatgacttg atgaaacttg taataccatt gatgggaagc ttgtttcaaa caatagatga 180  
 atttatttag ttgcaaacc atagactttg agtcacctga tacaaagttt tttggttgca 240  
 tcatataaat tgtgtcttca atgtcaccat ttagaaaagt agtcttaact acaatctaaa 300  
 atttctata gcttccatcg caaccttttt gccatcgcca acaaatatga atctttcacc 360  
 atcacttgac ag 372

<210> 16209  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16209  
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 agaagtttgg ctaccattaa caagaataga tatggaagct aaggtgagac aagcccctat 180  
 ccacctaatc catctctcat ggaaccccat tctctctcaac atatagagga gaaaatgcca 240  
 aatcacagaa ttataagcct tctcaaatgc caatttaaaa accatgcaag acttcttggc 300  
 tcttcagacc tctcaatca cctcattagc caccaaaaact ccattgagca attgtctgcc 360

ttttataaaa gttgtctgcc ttccatctat aagataaggg atgac

405

<210> 16210  
<211> 421  
<212> DNA  
<213> Glycine max

<223> measure at all n. locations  
<400> 16210

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aataattatg acctctccag caacaggtac aatcccgggt ggaggaatca tcccaacatt 120  
agatggctga accttcaca atagcagcaa ctttgaaagg caatagttgc ttagtgctaa 180  
aaaaaatata gagtgcaca attatttaac aacactcggc gagtgcataa acaataaagg 240  
tgaagtatag agtaacttg ctttgcaaag aaaaaataat gaaaaattaa atgtatagtc 300  
caacaatttc tgcagaagtt caggttagag attntctcat ttctttatga ttnttttcat 360  
gtgthacttt gagatagaga ttgcctttta taaaattcag taaatgattc attgtgggat 420  
t 421

<210> 16211  
<211> 384  
<212> DNA  
<213> Glycine max

<400> 16211

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gttggatcaa atggagaata gagatcataa tgaagaagaa aggaggagaa gagggaatga 120  
tgggtttctt agacaaaacc gaattgatgg tattaaaactc aacattcttc catttaaagg 180  
aaagaatgat ccggagggct acttggagtg ggagatgaaa atagagcatt ttctctatgc 240  
aacaactatg aggaggacaa aaaggtgaag cgtgcgcgca tggagttttc cgactatgct 300  
cttgtgtggt ggaacaagct acaaaaaggag agagcaagaa atgaagagct gtttgataga 360  
tggagggaga tgataaagat catg 384

<210> 16212  
<211> 385  
<212> DNA

<213> Glycine max

<400> 16212

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aaaattatg tttttgaat ttgtttagag ctcttgatct caatttcgag cgtctggata 120  
tatttcgggt ctttaacaga catccgagta aaaagttatt gttgtttgaa ctctctcaga 180  
cttcaacat tttatatga ggtctcaat atattacggg actcaatcag acattagagt 240  
aaaaatttat tatcgtttga acttgcttag agcttcgata atcaatttcg agcgtctcga 300  
tataatccg gattcagtea gtctaccgag taaaaagtta ttgcggtttg aatttgcaca 360  
gagctccgtt attcaatata gagcg 395

<210> 16213

<211> 377

<212> DNA

<213> Glycine max

<400> 16213

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tgatagcaaa tctcacatcc ttggccaaac gaagatacat ataccaattt aatataaatg 120  
gagaataaat taccgttcta ctctgatcta caaatgctgc tgattccctc acttggccat 180  
tagtgatgcc tggcatatat ttgcgctgtt tctgtactgg cacagactct ggagataaag 240  
gttccettgat gtcttccgca tagtgtttca atgaatttgg agagtttccc tgttgacaga 300  
gagcgatgat aaattaacag ctgacaatga aagctatata gatccgatca aaaagttagt 360  
ctcatagata aaatcaa 377

<210> 16214

<211> 405

<212> DNA

<213> Glycine max

<400> 16214

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acaagtcttg tgcaacaacc ccaacagcca atgccaa'ga tgcagcagca ggtctctct 120  
tgcacagagt ttccaatttt ttgttttgc tctcagctta ctcatctcca tgcattccct 180

atggtgagat aattttttat ttgtttgtta gatgcttcca agggggggtg tctatcgta 240  
 cctctctggc cgcacatgc aagatgtccc attcaaggt gtagctggg gaatgatgtc 300  
 agtctcttat gacatgggtg gtctgccaat ccgcatgtct gtgggacagc caatgcccat 360  
 tcaactttg gttacgggtc ttgcaaatgc tccccctgaa cagca 400

<210> 16215  
 <211> 333  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16215

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 aagtaattca attccatctg cttagcacc ctagagtact tctcgttctt agaaaagaat 120  
 attcgtgcgg agttatcaca atacatttct agcggcctag caatactgtc gacaattcca 180  
 ajccctgaaa taagttctg caaccaatta gccataattg tagcctcaaa acatgptaca 240  
 aattcagctt ccattggtga tgcagcaaca actgattgtt ttgcactctt ccattgatatt 300  
 tctctctcgg ctaagagaaa taaaaagcca agagtggatt ntcttgtatc cacacatcca 360  
 gcaaatgtctg agtttgaata tccaatca 388

<210> 16216  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<400> 16216

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 accagacatc ttgcacaaac aagtcaggtt aacgataact cgcctgtgtc tttttctcca 120  
 tcttatatgt agcaaatgca ttgatccagt aatgtttgat gagttggaaa atgagggcgc 180  
 aattatactg tgcacattgg agatgtattt tccccctgtc ttctttgaca tcatgattca 240  
 cttgattgtg catctgttca gagaaatcaa atgttgtgtt cctgtttatc tacggtggat 300  
 gtacccgggt gagcgtaca tgaagatctt aaaaggggtat acaaagaatc tatatcatcc 360  
 agaagcatct attgttcaaa cgtacattgc agaagaagcc attgaatttt tctc 414

<210> 16217  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<400> 16217

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ttaaataaaa gttggcctct tcaaatctct tatctctgga aggaattct atcaatagaa 60
tccatctctt tttggagag ggttaccact acgggaaaac ccaatgcaa attctatctg 120
tgcctataga tttaaatctc tgggaagaca tagaaatagg gccttatata cccaccacag 180
tggaaagagt tttcaatagat ggtagttcat caagtgaag cataaccata gaaaaaccta 240
tggatagatg gtttgaagag gatagaaaac gattacaata caacttaaaa gcaaaaaaca 300
taataacata tgccttagga atggatgaat atttcagggt ttc aaattgt aagagtgcct 360
aagaaatgtg ggcactctt cgattagcac atgaaggaac tacagatg 408

```

<210> 16218  
 <211> 354  
 <212> DNA  
 <213> Glycine max

<400> 16218

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ttgatgcct ttacaatagg agccagtggc atagtccatg tacttctcta actctttctt 60
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cttaccacac ctattctctt ttggggttat gtactttcta atctctcaa tgatgaaaaa 180
attgatcaaa tgatctctt tcaactggga gctcgctcct tcatcaacct tgggaacccg 240
aatctgcctt agagcaacat taccactatg aagagggctg actatttgat cctctagaaa 300
ctccttgctc aacatggcgc ctatgattgt ctccattact tgaacttttg actc 354

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<210> 16219  
 <211> 367  
 <212> DNA  
 <213> Glycine max

<220> unsure at all n locations  
 <400> 16219

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ttagatttgc atattctctt tcttgacctt ctttaaatgc ccatctcata aacaaagata 120

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tacaattctc tggagaaagg cccctctaaaa cataagaggg aatagtgcc atcattgaag 180  
 caatggagtt acctcgcggt gtcactatga ttttgcttcc cactgcacca acctttatta 240  
 aatttttcaa gtcactccat ttgtataat catcattcca tatatcctcc aagaccagta 300  
 aaaaattctg aagagaaagg ttgtgtctaa gaggagtttg aagctgtctc atacttaagg 360  
 tggatgat 427

<210> 16220  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<400> 16120  
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 aaaaatgcac gaatgctttc attgtgtgga ataatagaca ttccagccca gaactccctt 180  
 cttacaaagg aaggagccca gcgatgtctc tcacagaaca actctttcaa ccattttattg 240  
 tcccttgaggt caaaatcttc cacaatcttc tttcatttct gctcaaatc actttattga 300  
 tgtgtgtcat atacaacatt ctgcaaatga tctcttaagg actcgtaata acatttccat 360  
 ggattagtgt ggga 374

<210> 16221  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<400> 16221  
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 ataatttata acacggatgt ccgattcggg tgcataatat gtccagacgc tcgaaattga 120  
 acaacggagg ctctcgagaa attcaaatgg ctataacctt tcacacagat gttcgattca 180  
 ggagcatcac atatagagac gtacgaacaa cggatgcact cgagaaatac aaatggctat 240  
 aacttttcaa accgagttcc catctacgtt cataacttat tgatacgttt gaaattaaac 300  
 atcggaagct caatgagaaa ttcaaatggt cataactctt cacacggatg tccgattatg 360  
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<210> 16222  
 <211> 369  
 <212> DNA  
 <213> Glycine max

<220> unsure at all n locations  
 <221> 16222

atcttggtgca ttccatatacc tgatgagggg gtcccatatg ttctaaagac tagactaata 60  
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 ttccatattg ttggttccac catgaagccc ctgcatgtcc aggaagatca tatctttcta 180  
 aaggttttcc ctccattctct agaggggagt aaaaaagatt ggttgtaacta ccttgcctcc 240  
 agatccatct ccaactggga tgaccttaag agagtgttct tggagaaatt ctcccttgca 300  
 tctaagacca ctgccatcaa aaaagacatt tcangaaact taatggagag agcttgtatg 360  
 agtaactggg 369

<210> 16213  
 <211> 351  
 <212> DNA  
 <213> Glycine max

<400> 16203

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 ggtgogtacg ccagtgtgac taggagtgtg gtggtttaggt taatcaagaa agagataatc 120  
 tgcctggtatg ggthaccag gaagattatc attgataatg ccaccaatct gaataataaa 180  
 atgatgaaag aaatgtgtga ggatttcatg atccaacatc acaattctac tccttatggg 240  
 cccaagatga atagggtagt tgaggetgct aacaagaaca tcaagaaatt agttagaaga 300  
 ttaccggggtc atacaaggat tgacacaaga tgcctccctt tgcactacat g 351

<210> 16214  
 <211> 327  
 <212> DNA  
 <213> Glycine max

<400> 16204

ttcttctctg tacatracgg gcttcaatcg taaccccatg tcaaaagata tggcctctcg 60  
 aattggacca taacttctct gttaggthtc gaggctctcg atatatgtg tctgaatcgg 120



acatccgagt gaaaagttat gacaatttta atttctcgag aatttccatt attcaatgcc 180  
gagcgtctct atatatcatg ggcgcacatc atacactcat gtcaaaaagta atgggcgtct 240  
gaattctctc agaacttcca ttattcaatc tccagcgtct ctgtatatat tgcctactgaa 300  
ttggacattc gactgaaaag ttatgac 327

<210> 16225  
<211> 305  
<212> DNA  
<213> Glycine max

<400> 16225  
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tactttatta gaagcgcata agacaacata ctccatggc cctgttattt gtgagctcat 120  
aggaatcaa gcaagggtca ccaagaatcc ttgttgcctc acataattga cgaaagtggg 180  
aaaaggaaat gtgpcattaa atgggtcaaa tcaaccccaa taaaaattt cattactcta 240  
agcacattgc aaacaaaagc aatccttaat tacaatccag ggcagatgtt atttctataa 300  
caaaa 305

<210> 16226  
<211> 346  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16226

caatgcccg gacagagat gcagtantca ccaccatctg tctgcccag ggtgaactca 60  
tcacatgcgt gcttggataa aatttctata actgtaaagc caatgagggg ctctttcttg 120  
ccagtaatag tcttcacaaa ctcttcttca gggttcttag ccaacacatc atattcagga 180  
gacctttctt caagcataaa tctcttgcaa ataattggcc tattcaggat taaacctcca 240  
tatgataact gtccaaggtc acagcaacat gaagagttga agcaatccat afaagggtag 300  
cgga'gttcc aacaaactct tccagggtt gcatctgttg ccacca 346

<210> 16227  
<211> 341  
<212> DNA

<213> Glycine max

<400> 16227

taagataaa tggcctcagc aaatttcctta ttctataat gaaattctat caatagacct 60  
taattctta atgtagaggg taccacctac tggaaaaccc gaatgcaaat ttttatigaa 120  
taattagact taagtatttg gaaagccaca taattagcgc tatatatccc taccatapia 180  
taagaatta caatagatgg tagcacaaca agtgaaagca taacaatata aaatctaga 240  
tatagatggg atgtagagga tagaagatga gtccaatata atctaaaagc caaatacata 300  
ataacatctg ccctcgagaat ggatgaatat ttcaagggtt ccaattgcac caatgctaaa 360  
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<210> 16228

<211> 367

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16228

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agattctctg cagctacaat actcagaata actctgatgg tagtcatctt tacaactgga 180  
gagaagattt ctgtgaaac aattccttgt ttctgtgaa accttttcac cacaagtctc 240  
tccttgtatc ttctctatc gtcggatttt tcttttaacc tatagactca cctattctgt 300  
aacgtgtctt ttctctctat aaatttagtt aaagaccacg tcttattctt ttgaaggggt 360  
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<210> 16229

<211> 388

<212> DNA

<213> Glycine max

<400> 16229

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catgugccac ttgggatag acaagacctt tgtcttactc aaagaaaagt ttatttgucc 120  
ccatatgaag aaagatgtcc ataagcattg caataactct atggttgggt tacaacccaa 180

gtctaggggtg atgcctcatg ggcatacac acccttacc acccagctg caccctgggt 240  
 agacattagt atggactttg tcttggggt tcttagaacc caaagagggt tagacttat 300  
 ctttgtggtg gtggataggt tttagcatgat ggcacacttt ataccatgcc acaagatgga 360  
 ttagtgggtt caaatctcaa aactcttt 399

<210> 16230  
 <211> 353  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16230

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 ggaagctctc gagaaattca aatggtcata acttttcaact cgcattgtccg attcaggggc 120  
 ataacatata gagacgtttg aaattgaaca attgattttc tcgagaaatt caaatggtca 180  
 taacttttaa ctgcattgtc cgattcaagc gcataacata tcgagacgct cgaaattgaa 240  
 caacggatgt tctcgagaaa ttcaaatggt cataactttt cactctcatg tgcgattcag 300  
 gcgaataact tctcgagacg ctcganattg aacaacggaa gctctcgaga tattcaaa 358

<210> 16231  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<400> 16231

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 aatttgatat gaaagatcta ggggctgcaa agaaaatctt aggaatggag atctataggg 120  
 atagaactca gaaaaggcta tttttgtctc aaaaggatta cattcagaag atacttgtga 180  
 ggtttggaat ggetaactct aaacctatca gcactccctt ttcagaaaaa gagaagttgt 240  
 ctgttatgat aaagattcaa gctcaggctg atcaggatha tatgtcaaag gtttcact 300  
 caagtgtgtg tggcagtctc atgtatgcca tggctctgac aagacatgac ctgcttatg 360  
 ctgttagcat ggtc 374

<210> 16232

<211> 377  
 <212> DNA  
 <213> Glycine max

<400> 16232

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 attatacgag acatctttgc aaacaaagtc aagttcacga taactcgcct gtgctttttc 120  
 tttctgcta tatgtagcaa agtgattgat ccagtaattg ttgatgagct ggaaaatgaa 180  
 ttgcaatta tattgtgtca gttggagatg tattctcccc ctgcttttctt tgacatcatg 240  
 attcacttga ttgtgcctct agtcagagaa atcaaatgtt gtggctctgt ttatctacag 300  
 ttgagtacc cggttgagcg atacatgaag atcttaaaaag ggtatgcaaa gaatctatat 360  
 catccgaaag catctat 377

<210> 16233  
 <211> 371  
 <212> DNA  
 <213> Glycine max

<400> 16233

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 tttctccaga ttacctggg taaactttat cagagagaaa tcagaaacct ttgaagtatt 180  
 caaagagttg agtctaagac ttcaaagaga gaaagactgt gtcacaaaga gaatcacgag 240  
 tgaccatggc agagaatttg aaaacagcag gttcactgaa ttctgcacat ctgaaggcat 300  
 cactcatgag ttctctgcag ccattacacc acaacagaat gggatagttg agaggaaaaa 360  
 caggaccttg c 371

<210> 16234  
 <211> 350  
 <212> DNA  
 <213> Glycine max

<400> 16234

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attacgggac tcaatcagac atccgagtaa aaagttattg tcgtttgaat tggctccgag 180  
 ctccaacatt caatttcgag cgtctcgata tgttacgaga ctcaatcaga catccgagta 240  
 aaaagctatt gtctggttgaa ttgctcaga gattcaacat tgaatttcga gggctctgat 300  
 atcttacggg attcaatcag acatccgagt gaataggat tggcgtttga atgggtcag 360

<210> 16235  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<400> 16235

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 aacaattatc acctctccag caatagatac aaacctggat ggaggaatca cccaatctc 120  
 agatgggtcta gctctcaaca gcaacaacag tagcctgctc ctctcttcca aaatgctgct 180  
 ggcacaagca gacatacat tctccacca atccaacaac aacaacagcc ccaaaaaaca 240  
 ccaacagttg agacctctcc acaaccttc ctccaagaac ttgtgagga aatgactatg 300  
 ccgaacatgc agttctctgca aaagaccaga gctccattc aaagcttaac caatcagatg 360  
 ggacaattgg ctaccaatt gaatcaacaa cag 393

<210> 16236  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16236

tcttagtttc agatgatgca gatggyttgg tagctacctc atgcactcct ctaatgacta 60  
 tggcatcatt tctggcaacta aactgctggg agttggaagc catcttctca attaaatttc 120  
 ttgcttcagc aggagtcatt gtctccaaag ctccaccact ggcagcatct atcatacttc 180  
 tctccatatt acgagtcctc tcataaaaaat attggagaag aagctgttct gaaatctgat 240  
 gctgggggca acgggcacat agttctttaa atctctccca gtactcatac aggtctcttc 300  
 cattgagttg ccaatacctc gagatctct tctgatggc tgtgctcctt aaagcaggga 360  
 aaatnnnttt caagaatact ctcttaaggt catccagct cgtgat 406

<210> 16237  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<400> 16237

ttaaatcagag atagtgga aaagtatatga caattttaat ttaacgagag attacgttgt 60  
 taaatttata gaaatcagac atattatggg ccggaatcgg acatccgtgt gaaatgttat 120  
 gacatttga atattcagag agcatatcga gttaatttc gagcgtatcg atttatttga 180  
 agccgaacc gaaatccga gtgaaaattt atgaccattt gaatttcacg agagcttccg 240  
 ttgataatt ttgagtgta ctatatggga tgcgccccag ttgacattc gatttaaattg 300  
 ttatgacct ttgaatttt caagagcttc cgttggtcaa ttctgagcgt ctctgttatgt 360  
 tattgcttt gatcgtaaa tcggtgaaa agttatga 398

<210> 16238  
 <211> 286  
 <212> DNA  
 <213> Glycine max

<400> 16238

caccatacag acctttggcc ttccaatgca caacctggag caattgaaca gcccgaaact 60  
 tatgctgcaa acatttaca tataacctct caacctcagc agcaaaatca accaccatag 120  
 aacaattatg acctctccag caacagatcc aaccttggat ggaagaatca cctaattctc 180  
 agatggctta acctcagca acaacaaca cagcctggct ctctcttaca aaaggtgttg 240  
 gcccaagcag accatacatt cctccacca tccaacaaca gcaata 286

<210> 16239  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<400> 16239

tcatttctgg tccataggaa gacaaaactat atcctgtagt ttaaggacac ttccaacttt 60  
 ttacttgta ttctcatacc acattttaat cataatatca ttaacattca acaugaatca 120  
 ctgagaactt tgaagcattg ttcttttctt aatgtatctc tggaaaggct aatatctgac 180  
 caatgaaag atatgggag gcaaagacct aatccatcca atgactttaa gtaacaaat 240

atgttctttat gagagctcac gtgacatttt ggtcactttt cctatgtgaa agaatttget 300  
tattaaatgt tatgaaaaca gtgtcatttt agtgtgtgta acgggttatgg tagcgtatac 360  
aattcactaa ttttaatttat gggatataat taaaccaaatt 420

<210> 16240  
<211> 359  
<212> DNA  
<213> Glycine max

<400> 16240

agcttgttagg gttaaagtct cagcattgtc acgtgtctat gcaacaattg tttagcgttg 60  
ctatacgaga catcttgcga aacaaagtca ggttcacgat aactgcctg tgctttttct 120  
tccatgctat atgtagcaaa gtgattgac cagtaatgtt tgatgagttg gaaaatgagg 180  
ccgcaattat attgtgtcag ttggagatgt attttccccc tgctttcttt gacatcatga 240  
ttcaattgat tgtgcattta gtcagagaaa tcaaatgttg tggctctgtt tatctacggt 300  
ggatgtaccc ggttgagcga tacatgaaga tcttaaaagg gtatacaaag aatctatat 360

<210> 16241  
<211> 375  
<212> DNA  
<213> Glycine max

<400> 16241

atcttgcaga cctaacatta tctatgtatg ataagcaaaa cacatctcaa cacatgataa 60  
taataactag cactatatta ttcttttaat tatagctcaa attcaaatgg ttgtgatttt 120  
gtatttgaag atactctcca caaaatatat taaatcgcat atataaataa tgggtgttgac 180  
aagaactact aatacgtccc atgaccccac ccttatctta cttattccat attgacacat 240  
atgcataatt aatattaagc tataaaactta taaaaaacia atttttatgt tggcaaaaaa 300  
atgtcaatat taacaattat ctatcactag acaataaata aattcgacta acaaaattta 360  
aataattaaa taaaaa 375

<210> 16242  
<211> 375  
<212> DNA  
<213> Glycine max

<400> 16242

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ttcttgtaat ctttcacaca tatactgtaa tcgattacca gattagattt tcagaaaata 60
ttctaacag ttacatcttt ttatgtgatt ttggaatggc tacaagaggc ctatatatat 120
ttgattgag aattgaattt gctaagagtt ttccagaaca aaaaaagctt tatctcttta 180
taaaagcaaaa ttgttttctc ctcttacaaa ttcttgggc aaattacttg tgattcaata 240
ttgaattttt gattgctcaa attgatcaat ctatctcttt caagagagat ttctctcttt 300
ctctctcttc aatttgaaaa gggattaaga gacagagggc ctcttggttg gaaagaattc 360
taaaagacaac ggaag 375

```

<410> 16243  
 <411> 353  
 <412> DNA  
 <413> Glycine max

<400> 16243

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ttttcatgca ttcttgctag ccaagatgtg ctgtagcctt cggattgagc ttgaacttgg 60
gcttgaatca gtctctgacc ctgagttctc ctctctcttc tctcttttca aggcacggat 120
tagcagattt ggcagataca gataccgac ctgaaagcgg gaacgatttg cgacaattct 180
cgcgcaggt ctccataccc aaatgtcacc ctctccggc caattttccg gcgcatatgg 240
aaatccctcg ccgacattc cctgtgccac ttgctgtaaa ttaataata cattattctc 300
ctccatgctc atcttccatc tccatctcca tctcgaacgc tacttatcta gct 353

```

<410> 16244  
 <411> 375  
 <412> DNA  
 <413> Glycine max

<400> 16244

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tgacccctac gagatagatg ggaagatttt tatattaaat tgaagaaacc ttccatgaat 60
ctcttgtaat atcttgctag gccccaaaaa ttgctaaatt caaaaacaga cttaagactc 120
tcgcacttga gaatgacttc tatcttagag gagatadagc tatacccttt gagatatcac 180
atgccttagg aagctaaatt tctctaacca aagctcaaac ttggcaaaat tagcatagat 240
tatctacttg tatgggtatg cagcacaacac cttaaagagct ctctatgttc ctcttiaccc 300

```



ctggaatata ccacaatatg ttctatgaat actaccacaa aactaacgag gtaagggtga 360  
aagactctat aatg 375

<210> 16245  
<211> 361  
<212> DNA  
<213> Glycine max

<400> 16245

ttcttgcctta tctcttcagg gagctcaaca cagtactgca tatgttcctt caacttggac 60  
ctacagcaag caataaaaaac aaagtatata acttatatatt ctctaaaaa acaaaaaatca 120  
caacaaatcc agcatcatca agttcacata ccacaaatcc aatacccaaa ttctttgttc 180  
aggtctgttcg cggcgcgagt cgtggccttc ccgcacccgt atttcgcac aaaatcctcc 240  
ttcgacgct ccagaaaagc cacaggcacc tgtctccaa tcgattcctc cgcacaaca 300  
caataagcta aaaaaaagtg agtcagacat tcatttccaa aaacataacg ctgaacttca 360  
a 361

<210> 16246  
<211> 373  
<212> DNA  
<213> Glycine max

<400> 16246

ttcttcattc ttagaatgaa gttagtagag atacatatat cgtgaataat catctataaa 60  
ggttatgaag tatttcggac tatttgcac catgtctgga caacatatgt ctgtatgtat 120  
gatttctaata aaattagaac tctcttttgc acccttttta gacttggttag ttgcttacc 180  
cttaatgcaa tctacacaag tctcaaaatc agcgaaatcc aaagtactaa gtactccttc 240  
atttactaat cgtttgatcc ttcaataga gatatgtcct aatctccggt gccacaacat 300  
agagatctct tcattcaca tacatcgttt ttaacccaac agaaacatgc atagaagtag 360  
catcattttt gaa 373

<210> 16247  
<211> 378  
<212> DNA  
<213> Glycine max

<400> 16247

ttttttatca tgttcacgac aaaggactaa agaagaaatc tccgtcttat gaccactaca 60  
aatcaagtc tctttgecta acacatgac aagccttgag cacaacaggc acggaatttg 120  
taatttgacg taaccagcaa actttgctat aacataagaa aaaaacggcat tgatgaaca 180  
aaaaagatc agtaacatt cgagaaaagc cgtgccaag gccttggtaa caccggggga 240  
agccttaagc ctttcagaag atgaaattcc agtggtagcc atcatcaaac caactcaat 300  
agcttcgaaa ggagaaaccg attgctgaaa gttgaaacag atcaaaactat gaccttcttc 360  
ccaaaatgat ataaataa 378

<210> 16248

<211> 332

<212> DNA

<213> Glycine max

<400> 16248

agcttatcag attaacattt tttttcaaaa tgcaacaatg agaaaagaaa gcacaaagag 60  
gaaattcaca gaaccaaatg agattaacat caattcacat tttgtttcta aagaatataa 120  
gagaaaaaac ccgattcact caggcagagg aaaacctctc aaaggtgcat aattctcatg 180  
caggcaattg ttcattcaca attccaatca ctgatatgtc ataaatcaat ttttgcaagt 240  
catttcccat caaatcaaaag ataaattgca taatcatcat ggatcattag ggcttttagg 300  
atttggacta gctttgaaag aaatattggt ttttctggat attcaaaaat accttgagaa 360  
taggaaagca acataaaaaa aa 382

<210> 16249

<211> 416

<212> DNA

<213> Glycine max

<225> unsure at all n locations

<400> 16249

gacctatgat actcagcttc aatgtccttc ttgatcaaaag ctctcgaaaca aatgtttttt 60  
atatcgacat tttttcata aagcttatat atttacttta actataaaaat atatcacaca 120  
tattaccaat attttgttga ggaagctcat tgattatgac aatggtttat cttaaccacg 180

tctctgattt tggattggct aagttgacca atgataactaa tacacatgtc tctactcgtg 240  
 tcatggggaac attcgggtaa ttctggcacc ccatgggtta atacctacgt agaaactata 300  
 aagaaattga taaaaatggg aattaatagt ttaaatttgc atgtctaaac aggtatcttg 360  
 attagaata ctcatcaagt ggaanattga cagagaaac tgacgttttc tctatt 420

<211> 16250  
 <211> 268  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16250

ttctgattag acatttttgc ctccacatagt tctttcgacg ggaagggttg cggagggagc 480  
 ctcaactact ttgttagttt catgggggct gtctcgtgtt tgttggattt ggtggagcga 540  
 atgtaattgt ctactctggg ccatgtagca ttttggaagg aaggagtaag ttgtgtttgt 600  
 tgttgatggc tagaccatct gagattatgg tgattctctc atctgggatt gtatctattg 660  
 ctggagaggt cataattgct atgctatg 720

<210> 16251  
 <211> 367  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16251

ttcttgcaag atggaagcaa agaaatctat caatgggggg tagaataacc ctcatthaatt 60  
 cagtcttaac agccttacc atctatttgc tgtctttctt caagatacct aaacatgtgg 120  
 tgcaaaagat tgtatctatt caaaggaatt tcttatgggg aagtcaccaa gactccaaca 180  
 agatcccttg gggaggcgcc atttgcacat gaatcactct tgaggcaaaa atcaaggatc 240  
 aaatggctca nggaaggtga cagtaacaca tgcctctttc ataaatccat aaattttaga 300  
 agacattata atgcaattca aggaatatct attgaaagta tatgggttca gcaacccaaa 360  
 ttgg'ta 420

<210> 16252  
 <211> 402  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16252

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tacataatat ggttgaagtt tagtacatat gctttttctt taatttcang atcctaagat 60
ctttagtttt taatttaaac atgtgttgga cgaatgaat gttctgagag atttgcatac 120
tatgggataa gttaaaactt ggtgaactat ctctgggaga gtttcaacca gggaaatgca 180
aacgttgcaa ataatgtcac aacctgggca ggaacatgct aatcacacc attgattgga 240
gctttcttag ctgattcata ctggggaaga tactggacaa tttccagttt ctcaattgtc 300
tatgttattg taagttttag gatctttttt ttcttggttg ttgagtcccc atgttatgct 360
aaaggcattt agttttcact ctctgacct cagttttatat tt 402
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<210> 16253

<211> 356

<212> DNA

<213> Glycine max

<400> 16253

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tacttaataa ggctatacgc tggaccctgy ctgacattcc tgggtattagc ccattccacat 60
gtatgcatac gataaattta taggatgggg ctaaaccagc aagacaacca cagagaagac 120
tcaaacccgtt gattcttgat gaagtgaaga aggaggtaac caagctttty caagctggaa 180
tcatttatcc tatctccgac agccaatggg tgagtcocgt ccaggtagtc tcgaagaaaa 240
cgggectcac cgtcataaaa aatgagaagg aggagctgat tctactcgg gtgcagaaca 300
gttggagagt ctgcactac tataggaggt taaaccaagt taccaaaaag gaccac 356
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<210> 16254

<211> 376

<212> DNA

<213> Glycine max

<400> 16254

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ttgatcaatg tctggattg tctaaactagt gaaaatgaga aagatctaaq ggctttcttg 60
taaaacttaq atcgttaaga aaccattcct ggaaggggaa ccaactttga agaattgaaa 120
agcgggautc aatccagaa gaccaaggtg aatttgaaga tcttaccaca ccaactgaag 180
tatgtgttct ttgaggagaa cgaacccaag cccctgggta ttgaaatga cctaacagta 240
```

gaggaagata acaggttggg agaggtcctc aagagacaca gggagggaat taggtggcac 300  
 ataccagatc taaaaggaat tagccttgtc tactgtatgc acaagataat gatggaagaa 360  
 gactatagac ctgtca 376

<411> 16255  
 <411> 377  
 <412> DNA  
 <413> Glycine max

<400> 16255

ttcttttttcg tttttaagaa gttcaaagct acagtggaga aaaaaagtgg ttgagaaatc 60  
 aaagatatga ggaactgacca aggaggagaa ttcaattcca aagagttttg agagtctctgt 120  
 gaagagaatg gaaccagatg tcccttgatg gttccaagat ccccccaata gaatgggtgtg 180  
 atggaaagaa acaatagaat aatccttgat atgggtcaaa gcatgctcaa aagcaagaaa 240  
 ttgocaaaag aattttgggc agaagctgtg gcatggcctt ttatctatct aatcgatcac 300  
 ctacaagaag ttttatgggga aagacaccac aagaagtatg gagtgggaga aagtctggta 360  
 ttctcactt gagggtc 377

<410> 16256  
 <411> 373  
 <412> DNA  
 <413> Glycine max

<400> 16256

atcttggcat ttgatgctg ccaactgtct tggggagggc gttttcaaca tcagatcaaa 60  
 ggtttacatg ttaacaaaac tgtgggtatct cagagtcaat gtaatagaag ctcaagatgt 120  
 gataccgggt gacagatacc gcttaccgga ggtttttgtg aaagctcaag tgagctgcc 180  
 agtggcgaca accaagatat gccccagcag aacaaccacc ccattctgga accaagattt 240  
 gatctttgta gctgtgagc catttgagga gcaattaaca atcactgtgg aggatcgtgt 300  
 gcaacttcca aaagatgagg tactggggaa gataagctca ccaatgacc ttcttgagaa 360  
 gcaattagac cat 373

<410> 16257  
 <411> 357

<212> DNA  
<213> Glycine max

<400> 16257

ttcttcaaca tcagaccact tccaggggtgc tggaaactact tcacatggac ttgatggggc 60  
ctatgaaagt tgaagacctt agagaaaaga agtatgcta tgggtgtgtg gatgattct 120  
ccatatttac ctgggtcaac ttatcagag agaaatcaga cacttttgaa gtattcaagg 180  
agttaggtct aaacttcaa agagaaaaag actgtgtcat caagagaatc aggagtgacc 240  
atggcagaga gtttgaaaac agcagggtta ctgaattctg cacatctgaa ggcattcactc 300  
atgagttctc tctagccatt acaccacaac aaaatgacat agttgaaagg aaaaaca 357

<210> 16258  
<211> 379  
<212> DNA  
<213> Glycine max

<400> 16258

agcttgaaga ttagactata cgaggtatct tcttgggta tagcaatata tctaagggtc 60  
actgtgtcta caacttgcaa actaagaaac tcgtcatcag tcgagatgtt gaagttgatg 120  
agtacgcttc ttggaattgg gatgaagaaa aagtggagaa gaacgttctt ataccgctc 180  
aactacctca agaagaagct gaggaagaag acccaggtga accaccttca cctgcaccac 240  
aacaacaaga tcaagaacta tcattaccag agtctactcc aagatgagta agatcttttg 300  
tggacatata tgaacctgt aacttagcca tacttgaacc tggaagcttt gaagaagcgt 360  
caaagcagga catatggg 378

<210> 16259  
<211> 354  
<212> DNA  
<213> Glycine max

<400> 16259

ttattagacg acctgtttg agtcgagaat actttattat ttatttggac aagtttgaat 60  
atgatgtaga agaaaatcaa tctcagacct ttccccctt gaaagactta aaaaaaagt 120  
tttaaaaata cttttaaata agatttgaat ttttttctt ttttagtata tttgtuaggg 180  
gtagagagtg tcacaagata ttaggacctt ccattgggta gcaagcttct ataaaaggtt 240

cyttcctaatt ttctctacaa ttgcctcacc tctcaatgag ctgggtgaaga aagatgtggc 300  
 atttacctgg ggtgaaaaac aagagcaagc ctttgccttg ttcataaaaa agct 354

<210> 16261  
 <211> 363  
 <212> DNA  
 <213> Glycine max

<400> 16260

ttcttaagct ccttcaactg cacaaggctc ttaatatctg aagagtatcc ttgtggaacc 60  
 ttcaatccgac gaagacactg acaaaaaactt atttatctct tcttggaaca agtatggcag 120  
 gttgggggca agtaaatctt cttcccatca gactctggat gaaactgtga tegtataccc 180  
 atataagcta gatcttgacg ggtattcaag ccatcctctg tcttgccctg aatgttaagg 240  
 aggttcccaa tcaactgtc acaaacattt ttctcccat ggataacatc aatacaatgt 300  
 ttaactgcaa gattacacta gtatggaaga tcaacgaaaa tggacctctt cttccatctg 360  
 caactctg 363

<210> 16261  
 <211> 370  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16261

acttaattaa caaaatctaa tccggaaata tatcttatgn ncttggttct ttaaagaaag 60  
 tgataaatca gcttcaaac aaacaacctg caattgagtg ctctcgctca gtacgacaac 120  
 gtcttgata tggatgttca ctgcacccaa gaattggtct ttgagatca atgctgaaat 180  
 caggatctcc aagatcattg taaacatcat aatcatagat tctttcataa ctcttaactt 240  
 ctcttctctc attctctctc aatagcatta gctcacttc tetaagtctt ctcaaccac 300  
 atgggtgttg tcatggcaaa taagactgtt tcagaataag ttaactcgat ttaaaaaaaaa 360  
 aaagcttata 370

<210> 16260  
 <211> 429  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16262

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ttggaagggtc agagcattgt gatgagtggg taacataccc aggcgcaacc ccttcgaaaa 60
ttatagagag atataaaga taacagtggt gcccttgtaa gagggttaac caagatataa 120
gtccatggat aataataccc atggttgtac tggatagga agaggactca aaagcccata 180
tatttatggt ttatagatc aggtacatg ggaagttaa caacctgca tgaaggcagc 240
ggtatcagct ctaacgggat cccacgtaaa gttttcttgt aagcgatgaa gggttttctg 300
aatccccatg tgaccacctg tcggagattg ggggaatgct tctagtaaca acttagtgaa 360
ggagaaattt gagggaaacc aatacgggc tctgtgtaag atcanataag cagttaacgt 420
gtactctgg 429
```

<210> 16263

<211> 415

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16263

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gtctatgtgg aaaaaagagc ttaanaactg agatgttaga aaaggttggt tatccattat 60
aaatgtctta atcattttct caaagatgat aagtctccca tcccgaagc ttcttcactc 120
ccaaacctga tcagaaaaac aaacttattt tcaaagtttg atttaaaatt agggttttgg 180
caacttgggt tacaactaga agatcagtat aaaactgaag atcagtatta aacagtcctt 240
tgtgtccga atgttcagta ccaatggaca gtccttctct ttggttttaa agtatcacc 300
ttctcttcc aaaaagccat gactaagatt tttagcctat ttgggacaac atcattgntt 360
acatagatga tatcttttct tgttcaaaag acattgtctc tcataaaaac tta 413
```

<210> 16264

<211> 372

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16264

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ctcagctgga ccaatccctt ggccttttgt tgggttgcta taandactc angacatga 60
```



cgtatgtgcg gaggtgggtgg attcttgctc aaaactttgt catgcttcag tagatctgtt 120  
 caaalacaat tccaatccctt taaatttaac tccaacata agttttaaaa aaaataaaaa 180  
 acaataaatg ccaattgtat attthaagga taacatcaac ctattacalt acctaggtct 240  
 ttccattag ttccgaagtg gcttttcgac ctaaaataaa agcacaagtt tgcagaaatg 300  
 aa 360

<210> 16265  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16265

ttccaaactc agcttggtta caatatccct tanataagaa aaatgtttat aatatcttat 60  
 ctataactaat taatgaactt aaagggcgaat tacggaagat aaaaaattac aatgttcata 120  
 ttttttatga tttatgcatt taatatTTTT tttcttttaa tttctttaact aatatctaaa 180  
 agcgctaatt aacaagaacc ataaaagtaa accaatgagt aactaacaat cccgttataa 240  
 aaaaaaaggt tatcatcatg tcttttttgg actaatcata tcatectatg atttcatttg 300  
 acaataataa aagttaaaaa tgaatcgaaa ttaaaataca taggaccgaa taggagttat 360  
 gagtkaatat atttaattaa gacacatatc tgtaaacaan attgatacag cttgaatg 418

<210> 16266  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16266

tcttagtctc aactgatgaa gatgtaattc gggctaactc atgcactcct ctaatgacaa 60  
 tagcatcatt ttggcacta aattgctagg agtttgaagc catctttctc attaaatttc 120  
 tggctcaat aggggtcatg tctccaaggg ctccaccact ggcagcatca atcatacttc 180  
 tctccatgtt actgagttct tcataaaaaat attggagaag aagctgtctc gaaatcttgt 240  
 ggtagaycca actacacat agtttttaa atctctccca atattcaat aggtctctct 300  
 cactgagttg cctaattgct gaaatatcct ttctaattgt cgttggtctc gaagcaygga 360

aatttttttc tgagaataact ctctt

385

<210> 16267  
<211> 410  
<212> DNA  
<213> Glycine max

<223> unsure at all n. locations  
<230> 16267

tttagcaatt cttagaggt tggagtcata acatgcaatc ctctagaacc cttaacctcc 60  
actctttcgt tataacgaga ctggggaacc ccaataagtt ttgccttttt aatgtactcc 120  
taacaaaaact taatagcttt ttttgcacg taacttttaa caatagatgc ttcaggatag 180  
tgtaaattct tgcataacc ttttatgac ttcattgtatt gctcaaccca atacttgcac 240  
tggaaataaa caaaaccaca acatttaatt tccctcacca gatgaacaat caatagaacc 300  
ctgatgctga aaaacaaagg aggaaaatac atctcaatg gacataagat aataaacaac 360  
taattttcta cccatcttaa cttagacagga tcaatgcact tgcatacat 410

<210> 16268  
<211> 371  
<212> DNA  
<213> Glycine max

<400> 16268

ctaattgaatt gggctctaat tgcctatcag acatggcaag ttaagccaaa ttaatttac 60  
tttaacctac ggcatacagc aatttgcctg caattccttt tctctgtta gagggagcaa 120  
cccaaatggc cctaattgca caagcagcga tgggttggtt gctatcacag aagattgcac 180  
cttccatcct ttaaaaatca ctcaagggaag caactttttt ttaacctcc ctttggaaaa 240  
taacattccc aaaccgaaaa gtggtagaac ggcctctcac ttcccttttc ttaacgctat 300  
caggagagcc agacacaact ttgaatgctt tttaaatggg ctctgcaacg aggcactcca 360  
taacctgtg a 371

<210> 16269  
<211> 398  
<212> DNA  
<213> Glycine max

<400> 16269  
 tgggtgtcgt ctccaacggt ctctctacgg gcttaaacaa gccagccgac aatgggtttac 60  
 aaaaatatca aatttcttag tctcccatgg gtccaacaa tctaacctgg accactctct 120  
 tctctaaag cttaactaagt cagccactac tctactcttg gttgagctcg atgatatcat 180  
 atttacaagg atagatagc tggaaataga agatatacgc accctcttgc attaaacatt 240  
 aaaaataaaa gatcttggcg acttgaaggt ccttttctga ctgagagattg cccgtaccaa 300  
 tcatggaatc catthattgg aacgaaaata tgccttagac attttgtctg attcagatat 360  
 gctaggatgc aaqccacact cgacacccat ggattatt 398

<410> 16270  
 <411> 444  
 <412> DNA  
 <413> Glycine max

<400> 16270  
 actatcaata ctacgcttaa cattcaattt cgaggctctc gatataattac tgtacttaat 60  
 caagcatcca agaaaaaatt tattgtcgtt tgaatttgcg cagagattca acattcaatt 120  
 tctagcgtct cgatatatta cgggactcaa tcagacatcc gagtaaaaag ttattgtcgt 180  
 ttgaattggc tctgagcttc aacattcaat ttctgagctc tctatatgtt acgagactca 240  
 atcagacatc ctagtaaaaa gctattgtcg ttgaatttg ctacagagatt caacattgaa 300  
 ttctgagggg ctctatatct tacgggactc aatcagacat ccgagtgaat agttattgtc 360  
 gtttgaattg gctcagagct tcaacattca atttctgagg tctctatata ttacgggact 420  
 caatcagaca tctgagtaaa aatt 444

<210> 16271  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<400> 16271  
 gagagcttcc ggtttcaatt tctgagtgct gtatatgat ggccttgaat cggacatccg 60  
 agtgaaaaag tatgaccatt tgaattcttc gagagcttcc tatctttaat ttgagcgtc 120  
 tctatatatt atagcctga atcgaacctc agtgaaaaa gtatcacc aattgaatttc 180

tttagagcat cegttgttca ttttcgagcg tctctatatg tgatgcaact taatcggacc 240  
 tccgtgtgaa aagttatgac catttgaatt tctcgagagc tcccgtytt caatttcgag 300  
 cgtctcgaca tattatgcgc ccgaatcgga catccatggy aaaagctatg actatttgaa 360  
 tctctcgaga gcttcgtag ttaatttcg agcgtctgga ca 420

<210> 16272  
 <211> 431  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 16272

nttgagcaat tcanatggtc ataacttttc actcgtaggt ccgattccatg cgcataatat 60  
 atcgagagcgc tcgaaattga acaatggaag ctcttgagca attcaaatgg tcataacttt 120  
 ttaactcagat gttctattca ggcataaat atctcgagac gctcaaaatt gaacaacaga 180  
 agctcttgag aaattcaaat ggtcataact ttttaactcg aggtctgatt gaggcgcatt 240  
 atatatcaag acgctcgaaa ttgaacaatg gaagctcttg agcaattcaa atggtcataa 300  
 cttttcactc ggaggctcta ttaaggcgca taatatatcg agatgctcga aattgagcaa 360  
 tggaaagctct tgagcaataa caatggtcac aacttttata ctcgagggtc gatngaggcg 420  
 cataatgtat c 431

<210> 16273  
 <211> 434  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 16273

tgctggcctc aaacttgcta ataatatgct gccacactta ccgacattta gagcttacct 60  
 cttaaaggaat accaaggtta gaaaaaggaa attccagttg gctgcaattg agagaagaag 120  
 ctgctctcct acaccagccc acagatttac ccaaacacccc aaattggctc ttattatagg 180  
 ttatctttta accagaaacc aattcaaaag ttttcaggat acaattttaa actttaacat 240  
 tatcattagt ggcagtccca aagaacaagg tctcatcagc atatgaagt atattaact 300  
 cctcttttnt ctctccact tccagctat tgaagagatt ctctctact gctgacttca 360

tcaaccacgt aatgccttcc accactatat taaatagcaa aggtgcaagg tggtcacctt 420  
gccttaagcc tctc 434

<210> 16274  
<211> 441  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16274

gtactctatgc ttaaagattg gctaagattt tgttaaaaca taagcaetta nacaatgaag 60  
gaaagctgga gttgctgcac atgatgtcca acgttatgtc aaagaataag atcggggtgc 120  
acaatgcaca aagcaagata aagtgtcaaa tgaagaattg aagctgcagg attcacgatg 180  
tcggatataa tctccaggac atcctgcttg aaaatactgg aattgctaaa agcattgaag 240  
ctgcaggatc cacgatgtcg gatacaatgt ccaggacatc ctgcccgaac atactgaggt 300  
tgcataaagc atttgaagtt gcagatccac gatgtcggat acgatgtcca ggcactcttg 360  
cccgaataata ctggacatat aaatctgta tatctttaac agattattgt gcagtttagca 420  
agagattaga tgatctatct t 441

<210> 16275  
<211> 421  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16275

tctgttctga attcagcat ctcatatact actggaaaca atcggacatc cgagtaaaaa 60  
ggtttgttgt ttgaatttcc taagaggtta tgatttcaat tntgagcgtc tcgatatatt 120  
acgagaactca atcaggcatc cgagtaaaaa gttattgtcg ttagattttt cttagagctt 180  
ctatttccga ttatgagcgt ctcgatatat taagagattc attcggacat ccgagtaaaa 240  
agttattgtc gtttgatttc gctcanaget tctgttatga atttcagatg tctcgatata 300  
ctaegggaca caatcggaca tccagataaa aaggtattga catthgaatt tgcctatagc 360  
attctttgtc aattacgacg gctagatat attaaaggat tcatttcgac atccgactaa 420  
a 441

<210> 16276  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16276

ataatactat tcaatgttac accatcatat agactatata acgattgggtg ggggttgtgt 60  
 gggcaacgat aacgggata atagcggga caataataat aacgatgggtg gggggatga 120  
 tggatattgat ggggggtgata atgggtggcaa tggcgatagc ggcgacaatg aaggcaacaa 180  
 caatgacggt ggggggtggcg ggcgagatgg tggcgacaat ggtaggagtg acaacgccag 240  
 tcatgggtgtt gtcgatgggtg tcatgggtga gaagcgatga tgggtggggaa gatgggtgatg 300  
 atgggtgggtg cgatgatgac agtgatagtg atgggggttg tgagggcaac taccctatcc 360  
 ttttgccttc taaccaattc accccc 386

<210> 16277  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16277

ttctgggtggg acatcttcac ttgctttcca atctgacatt caccacagat tctgccttct 60  
 tctattttca aattgagaat gcctctaaca gcacctttgt caatgattat cttcatgctt 120  
 cttaagtga gatgtccaaa tctttgatgc catattctga ctccatcttc tttggaggat 180  
 agacatgtgg aggagtaact ggtttcttga ggtgtccata ggtaacagtt gtcctttgtt 240  
 ctgctgcctt tcattagaac ttcactcttc tcattttgca ccaagcattc tgactttgtg 300  
 aagtttacat tgaatcttc atcacacaac tgactgatgc tgatcaagtt tgcagtcagt 360  
 cctttcaaca gcagtaactt gtccagacta agaagtcac catgggct 408

<210> 16278  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<400> 16278

tcaagaaaaa gatggcctca gcaaatctct tatttcacaga aggggaattct atcaatagac 60  
 ctccaatctt taatggagag ggttaccact actggaaaac cogaatgcaa atttttatcg 120  
 aggaataga tctaaatctc tgggaagcca taaaatagc gccttatata cccaccacag 180  
 tagaagagt tccaatagat ggtagttct caagtgaaa gatagcaca gaaaaccca 240  
 gaaagaaag gctggaagat gataaatac gattatata caattaaaa agtaaaaaa 300  
 taataacata tgccttaga atggatgaat atttcaggt tccaaatgt aagagtgcga 360  
 aggaatgtg ggcactctt cgaataaac atgaaggaa tacagat 407

<210> 16279  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<400> 16279  
 tcaacactt tccacacaga ggtcagattc gggtcataa tatgtcaga tgcctggaat 60  
 tgaaccacgg aagctctcga gtaattcaaa tggtcataac ttttcacaca gatgtccgat 120  
 tggggcgcct aatatgtcga gtagctcgaa attgaacaa ggaagctgtc gagaaattca 180  
 aatggtcata atttttcaca cggaggtcag attcgggcac ataatatgtt gagatgctcg 240  
 gaattgaacc acgaaagctc tcgagaaatt caaatggcca taacttttca caggtttgtc 300  
 cgaattcagc gtagacata tacagacgct cgaaattgaa catcgaaagc tcttgagaaa 360  
 atcagatggt cataactttt cacacygatg ttcagagtaag gtgcacaca ta 412

<210> 16280  
 <211> 345  
 <212> DNA  
 <213> Glycine max

<400> 16280  
 agcttccatt tccaatttgg agcgtctcga tatattacgg gtgtcaactg gacatccgtg 60  
 tataaagtta tttcgtttc aatttgcctc gagcttcggt tctaaattt gaggctctct 120  
 aaatattacg ggaatcaata agacatctga gtaaaaagtt atgtatgtt gaatttgcta 180  
 cgaagcttcg tttcaactt gaagctcttc gatataaac aggaatcaat cggacatccc 240  
 cgtataaagt taattgtgat taaatttctt accagcttca gtaattcaat tggagagctc 300

cgatatatatt cgggactcaa ccagacatcc gagtaaaaag ttatt

345

<210> 16281  
<211> 395  
<212> DNA  
<213> Glycine max

<400> 16281

tgttagcaata tbaaacgaaa ataactttat acacggatgt ccgaatgagt ctogtaatat 60  
atcgatacgc tbaaattga aaacataagc ccgtagacaa ttbaaggac aataactttt 120  
tactgggatg tccgatagag tctogtaata taatgggacc tbaaattga aaatggaagc 180  
tccatcaaaa tbaaacgac aataactttt tctcgggatg taagattgag tcccgtaacta 240  
tattgagatg ctcgaaattg acgacacaag ctctgaacaa ttttgaacga caataaatat 300  
attctcggat gttctattga gtcccgtaat atatcgtgct acctccaatt gtaaatggaa 360  
gtctgtagga aattcatagc acaataactt tatac 395

<210> 16282  
<211> 429  
<212> DNA  
<213> Glycine max

<400> 16282

gacastatag acaactccac gcttaggatt caacattaat taccgtgctt ctttccact 60  
tgttgaatta tatgcgactt tatctagatg aaaacgatcg aattctactc cctgcgggat 120  
attggattat atctgggcca ccaatcccggt ggaagaatca ttggaaagga tgggaaacaa 180  
caccygagga tttgaatgat gacgagacca aaattgagaa tctagccaaa agcctgtgct 240  
ggaacaagct actggagaag gacgatatag ccatttggca gaaagccaag aaccatttgg 300  
attgaaaagc caaccgtaag ctctctcaca atctgcctct ctgcaaggca cacagtaacc 360  
ctgaracggc ctggtatgtg ctccatattc cattgtccct tgtatttcac tcaagaaata 420  
ttccatct 429

<210> 16283  
<211> 434  
<212> DNA  
<213> Glycine max



<223> unsure at all n locations  
 <400> 16283

tctacagaag gtttgttccct aatttctctc caattgcctt acctctcaat gagctgggtga 60  
 ajsaajaatgt ggcatttact tggggtgaaa gacaagagca agcctttttt ttctcaaaga 120  
 aagctcctc aaggcacttg ttctagctct ttctcactt ttctaaaact ttgagctaga 180  
 atttjatgcc ttgggagttg gagttggagc tatatttgta caaggcgggc acctatttgc 240  
 ttattttagt gaaaaacttc atgggtgcctt cctcagctac ccaacctatg ataaagagct 300  
 ntatgcctta ataaagagccc tccaaaacttg ggaacattac ttgttttcca aggaatttgt 360  
 cttcctatgt gatcatgaat cacttaagta cattagatga tata 404

<110> 16284  
 <111> 334  
 <112> DNA  
 <113> Glycine max

<400> 16284  
 agcttatcaa catcaaactt ggagaaagag ttcttggggg caagacatga gaagcaatca 60  
 agtataatgt tacttccctc actaaagcgg tgatecatct ccacacatat ttatcaata 120  
 gcaacataaa aaatctctgc acggtaatga tgaagattag tgatagtcct ccttctctgt 180  
 ctgaacgac ccgaacttg tatttcgtca tccatatttg gtaccagaat acttttagca 240  
 acacacaaaa tcttggaca tgggcaaaaa aattattcca gccactctct ctcatgtgc 300  
 ccaaccgagc ttgacaaca tcaactaatt ctctttgcaa tatatttgaa agctcgtttg 360  
 ttctctatga cctggatcac gcac 384

<110> 16235  
 <111> 431  
 <112> DNA  
 <113> Glycine max

<223> unsure at all n locations  
 <400> 16285

acactatana caactcatgc ttaagccttg aattgagtgc cattaccgtg ttgattttta 60  
 agggagacca tatctgtaga tgaggttttt ccaggtgaac ttcttacct ccttaactga 120  
 aatattctct aatggccttg cctcagttca cttagtgaaa tagtctatgg tgaccaataa 180

gaacttgacc actcctatgg cttttggcaa tgggttcaat atgtccatgc cccatattggc 240  
 gataggccaa gtggaactca agctatgggtg gttgttggga ggggtgggtg gaacatctgt 300  
 gaattcttac ctctcttgta agtagaaggt ggcagcraa aatatccgat acacaacact 360  
 tgggttggta ggggaaganc tccgatatgg aggcacata tctttccatg ttagtattgg 420  
 atgacatagt c 481

<210> 16286  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<400> 16286  
 tgaagacaaa cgggatgggt tggccaactt ggttaaccag ctggccttga atcagaaatc 60  
 tgtacctgtc gaaagggttt gtggtttgtg ctctctgtct gaccaccata cagacctttg 120  
 cctttccatg cagcaacctg gagcaattga gcagcctgaa gcttatgtctg caaatattta 180  
 caatagacct ctccaacctc agcagcaaaa tcaaccacag tagagcaatt atgacctttc 240  
 cagcaacaga tacaacctg gatggaggaa tcacctaac ctccagatggt ccagccttca 300  
 gcaacaacaa cagcagcctg ctcttctctt ccaaaatgct gctggcccaa gcagaccata 360  
 catctctcca ccaatccaac aacagcagca acctcagaaa cag 403

<210> 16287  
 <211> 382  
 <212> DNA  
 <213> Glycine max

<400> 16287  
 agcttcaact ttaatatcg agcgttttga tatattaagg gactgaatca gacatccag 60  
 taaaaagtta ttgtcgtttt aatttggcta gagcttcgggt attgcatttc gagcgtctcg 120  
 atatattang ggttcaatc agacatcaga gtaaatagtt attatcgttt taacttgcct 180  
 agagcttoga taatcaattt cgagcgtctc gatattattac gggactcaat cagacaacgc 240  
 agtaaaaaagt tattgtcgtc tgaattttgt cagagcttcg gttatcaatt ccagaggtct 300  
 cgacatacna cggtaactca tttagacatc gagtaaaaaa ttatttctct ttagaggttc 360  
 tccagagctc cttatcaatt tt 420

<210> 16288  
 <211> 369  
 <212> DNA  
 <213> Glycine max

<400> 16288

ttgtttgagc aaattcaaac gacaataact ttgactcgg atgtccgatt gtctcccgta 60  
 tttatctcag acgtctcgttaa ttgaaaacgg aagctctaaag caaatcraaa cgacaataac 120  
 ttcttaattcg ggtgtccgat tgtgtctctgt agtataatcga gacgtctcga attgaaaact 180  
 gaagctctga gaaaaatcaa acgacgataa ctttttactc ggatgtccga ttgaatcccg 240  
 taatatatcg agacgtctgt aattgaaaat agaagctctg agcaaatcga aacgacaata 300  
 aettctgaac cggatgtccg attgtgtctc gtaatatatc gagacactcg taattggaac 360  
 auaagctct 369

<210> 16289  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<400> 16289

tctgttttca atttcgagcg tctcgatatt ttacgggtgt ctatccgaca tccgagttaa 60  
 aagttattgt cgtttgatct ttctaatagc tttcttttcc aattacgagc gtctcgatat 120  
 actacgggac acaatcggac acccgagtta aaagttattg tggtttgaat ttgctcaaag 180  
 cttttgttgt caattacgag cgtctcgata tattacggga ctcaatcgga catccgagta 240  
 aaaatttatt gtctgttgat tttctcaga gcttcagttt tcaattcaga gcgtctcgat 300  
 ataactacgg acacaatcgg acacccgaga taaaagttat tgttcgttga atttgctcag 360  
 agattctgtt tcaattacg agcgtcttta gatattacgg gactcaatcg gaca 414

<210> 16290  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<400> 16290

tttcaatata ttggaagagc ccatccacca ctccattatc attgtcaatc ttggattgg 60

tgtaaaagaa ctttggattc agataataac ccgctgcattg caaaggggtgg tgaagttggc 120  
 aatcccatct tttatcaatg attgcaagga tatecttata cttcccttca ttgtttattga 180  
 aagttctttg aattgcttct ttggccctat ccattgcttc ataaatgaaa cccattgtag 240  
 gtttttttc attatccacc gaactcaaga caattacaag aggcctcata gtttttaag  
 tataaacaac atcattccaa aatgatggca taagaanaac atctgtttgt tgggttctct  
 tgggtctctt agttgctta gaattcaacc attcatctga attaaacata cttcttaaga 420

<210> 16291  
 <211> 331  
 <212> DNA  
 <213> Glycine max

<400> 16291  
 tgcctatagt tattggaggg agaataaaa aatccaaaat caattgtacc cttcaagtaa 60  
 caaagaattc tttttggggc ttttagatga ggagaggtag gagcctccgt aaagcgacac 120  
 acaactccca ccgcataatg aatatcaggg cttgtattgg ttagatatct taaactcccc 180  
 acaagactct tgaagaccgt ggagtctacc ttctctcctt catcaaaactt tgataacttc 240  
 atgcaactct ccataatgtgt ttacacggga ttacaatcaa gcatattaaa tttcttcaac 300  
 actttttttg tglagcttcc ttgtgagaca aagataccat tctacgtttg cttcaacttc 360  
 attcccaagt aatatgacat g 381

<210> 16292  
 <211> 338  
 <212> DNA  
 <213> Glycine max

<400> 16292  
 agcttggtta ccccatgttg aatttgctta caatagagct ttccatagca ccaacaattg 60  
 ttctctcttt gaagttgttt atggttttaa cccactaact cctcttatct ttgtcctatg 120  
 cctaattgtt atgtttttta gcataaagaa ggtcaagcaa aaggcggact atgtgaagaa 180  
 gcttcatgag agagtcaaag atcaaatgta gagaaaaaat aaaagctatg ctaaacaaagc 240  
 caacaaaggg agaaagaagg ttgtcttcga acccagagat ttgttttggg tgcacatgag 300  
 aaaaqaaagc ttccaaaca aaqaaatca aagctcaac caaauagaga tggacatttt 360

caagtgccttg aaagaatcaa tgacaatg

388

<210> 16293  
<211> 383  
<212> DNA  
<213> Glycine max

<400> 16293

agcaatctcgt gcaaatccctt gtatgacacg gtcacctctt ggataatctt ttttatattc 60  
ttattggcgcg ctccacagggc tccattccatc ttgggcgcgt agggcggtgga attgtgatgc 120  
tgggttttaa actctctcgca catttcggcc atcatcttat tattccgggtt ggtgcgcgtg 180  
tcogtgataa tcttcccttgg caaacccatc cgacagatga tctcttctct aatgaacctg 240  
accaccacat tctctcgtgac attggtatat gaagccgcct cgacccactt ggtgaaataa 300  
tctatcacta cgaggatgaa gcgatgacca ttcgaggcct tgggctcgat ggccccgatg 360  
acatctattc cccacatgga gaa 383

<210> 16294  
<211> 412  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16294

ntgcacgtat cggtcgaagt tatggaccac gttgtatcca aggtgctcat cgataatggt 60  
tccagtttaa acgtgatgcc caagagcact ttggagaaat taccattcaa tgcttcccac 120  
ctaaagccaa gttccatggt ggttcgtgcc ttccaaggca cccggcgaga ggttaaggga 180  
gagatcgacc tccctgtaca gatagaccct cacacctgtc aagttacctt ccaaataatg 240  
gataattaacc ccccttacag ctgcctgttg gggcgcccggt ggatccactc ggtgggagtt 300  
gttcctctca cactccacca aaagttgaaa ttcgtagtgg aagggcactc ggtcatcgta 360  
tcagtcgagg aagacatctt ggtaagctgc ccactctcta tgccttatgt gg 412

<210> 16295  
<211> 384  
<212> DNA  
<213> Glycine max

<400> 16295

agctttaagt gtgattccct tctttttctt gtcattctcc tcatgtgat tcaatcttat 60  
 tagttccatt tcatgttccg gtaactttcc aaacaaagtt gcaagagaca tgtttgaaag 120  
 atcccttgat tctgtaatag ccattacctt tgattgtcat tccctgctta aacatctcaa 180  
 aattttatta ataagatccg tattgggaaa tatcttctct aatgatgcaa gatgatttac 240  
 tatgtgtgtg aatctctttt gcatgtccgt tatagtctca ttaggattca tccatataaa 300  
 tccatattca ttggttaggt atttatctca gaccttttta catttgtagt tcttccatgg 360  
 gttacttgta agttattcca cata 384

<310> 16296  
 <311> 425  
 <312> DNA  
 <313> Glycine max

<400> 16296  
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 tgtatatact aaaaggaaaa ctgctgaaat tagtaattat tgattatttt tgcaacatat 180  
 aggaaagaag acgttatgtg tgctttttta gtgatacgat gttatgtgtt taacagacta 240  
 ataatatagt tttaactatt gaaacatcaa attataaata ttttgtataa aaattaatgg 300  
 tatatagttg ttggatgtat ttattcagaa aaaaaggtta ttgggtgtat ttctttttat 360  
 tggeccctccc tgtcttctaa gtttaagttt gtccctgcaa catgtcattg accaattcta 420  
 tgttt 425

<210> 16297  
 <211> 415  
 <212> DNA  
 <213> Glycine max

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 gagcgttgcg ctggaagtga tccagatga gaacctttcg caacccgtca accaccacca 180  
 acataactga gggaccgtga tacgaaggaa gaccaacact actctctaga gagaatctct 240

gpcatgggta cgcgcgaaatc ggaaggggag acaggaggcc tggggcagga ctgagaactg 300  
 aattagttgg ctgactggg gcagagctcg tgaaccaatag atggatggct cgatgcatag 360  
 atggccagac aaaattctct cgagtaaggg ctacgcctgt cattaactcc atatg 415

<211> 16298  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<400> 16298  
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 aactgcagct agcactctta gatttgtgca gtggctgaga ttacttggaa aactgccacc 180  
 aaagtgtgtt atgctgaagt ttaggtatgg aaggatatgt aaacgaccaa cctcttgagg 240  
 aaattcacca tgaagctat tgtttaaaca gttgactgtg gtgaggaatg tgaggtttcc 300  
 tatgaagggg gtaagagtgc ctcttagtct cagttgctca aggctaaggt gtgtgactct 360  
 cccattggag atgttgcatg tgattcctat ccaatgcag tgattgatg 409

<210> 16299  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<400> 16299  
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 atatgatagg atgcaagtgt tgaacacaaac ttatcctatg ttgacttgtg ataaaaacct 180  
 tgtttgtgat acttgcata aagcaaaaac gagaaaactt ccatttccca atagtgaact 240  
 ctatgcttct agtcccttct ctttgataga tgtagatatt ttgggttctt gtaccacaa 300  
 taacttgaat ggacataagt atttctctac aattatggat gatcatacta cgattgtgtg 360  
 cagttttata atgacttcaa aagctcagac tcaaaactat tacaagcct tttttccca 420  
 tg 421

<L10> 16300  
 <L11> 257  
 <L12> DNA  
 <L13> Glycine max  
  
 <400> 16300  
  
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 atgaaacgc tggaaattga aaacagaagc tctgtgcaaa ttctgacgac aatacatatt 120  
 acctgggatg ttggattgag tcccgtaata tatcatgaca ctggaaattg agaataaaaag 180  
 atttgaacaa attcaaacga caataacttt gtactcggat gtccgattga gtccaccaat 240  
 atgtctagac actcttta 257

<L10> 16301  
 <L11> 377  
 <L12> DNA  
 <L13> Glycine max  
  
 <400> 16301  
  
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 agatactact ttgtttcaca aagattatgg aacctaaac cctaatacat tagatatata 120  
 tggatgatat catattcggg tgtactattg actctctgcg aaaggatttt tccaagttaa 180  
 tgcaggccga gatcgaaatg agtgtgatgg gagaattgaa gtttttcctt ggacttcaaa 240  
 tcaaacagc agatgaaggc atatgcatac atcatacaaa gtacgtgaag gaactcttga 300  
 aaaaatttta gatggacgat gcaatatata tgaaaactct catacatccg accactatac 360  
 ttagactaga tgaatgat 377

<L10> 16302  
 <L11> 415  
 <L12> DNA  
 <L13> Glycine max  
  
 <400> 16302  
  
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 ttctatttcc agatggggaa tgcctctaac agcacctttg tcaatgattt tcttcattgc 120  
 tcttaagtgc agatgtccaa atctttgatg ccatattttg acttcaatct ctctggagaa 180  
 tagacatgag gaggagtaac tggttctctg aggggtccat aatgaacagt tgcctcttga 240



totgtgtgccc ttcatthaaga cttcactctt ctcatttgtc accaagcatt ctgactttgt 300  
 gaagcttaca ttgaatctct catcacacaa ctgactgatg ctgatcaagc tgcagacag 360  
 tcccttcacc agcagtaact tgttcagact aagaagtcac tcattggacta tcttt 415

<210> 16303  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<400> 16303  
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 taagttctaaa gattcacaaa tcttcagaaa cttaactgtgt aatcgattac cactttttatg 120  
 taattgatta ccagtaagga atttttgaaa ataacttcca agagtccaaa ctgttcaaga 180  
 aatttgttat gacctctaa ggcctataaa taggtgattt ggyatacaaa attctctaga 240  
 ctgtttctga acaaaaattgt cttatctctt caaaaacaaa ttgtcttatt actctcaaaa 300  
 tattccttgg ccaaacactt gcaaatccaa taaggaattt tgagggagct tcacattgta 360  
 atatctttct cttaaagaga g 381

<210> 16304  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<400> 16304  
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 aattcagcat catttaaatc tcattctcta gtgtgggttg aagcaagtgg atactcatgc 120  
 aatatgaagg gatttcctaa ttagaagttc cttattacta gcttttgaaa galactttct 180  
 ctgagtgtga ttgatgcatt ccaaaaattg atctttttag caactgaaaa tttctttatt 240  
 tcatttgcct atgatagaag ggaggcctaa gtattttcta gacctatga ttgtagaggo 300  
 acccaaaaaga aacatgattg tttgcgtcaa atattgttga gtgttgggtc tgaaaaaatt 360  
 ctatgacttg tctaaattaa tcatttggtc aaaagccctt ccataaggtat ctatgaattg 420  
 ag 412

<110> 16305  
 <111> 420  
 <112> DNA  
 <113> Glycine max

<400> 16305

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attatgggac tcaatcggac atctcagtaa aaagatattg tcttttgatt ttctcagag 180
tttaatttt caattaacgag agttctgata tactacggga caaatcogga catcogagtc 240
agaagttatt gtctgtttgaa ttggctcaga gctttctgtt tcaattaaga gcctctcgat 300
ttaatcggg acacaatcgg acatcogagt caaaagttat tctcctgttg atttgcctag 360
agcttctgtt tcaattacg agctctcga tatattacg gactcaatcg gacatcogag 420

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<110> 16306  
 <111> 374  
 <112> DNA  
 <113> Glycine max

<400> 16306

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aggagaaccc aatctcctat ctggtagttc acttcacgac gtttcccttc agcttggttt 120
ttcatagcag ctgttccctt agaagcttat ttogaatagc ttggaaagtg ttatccctat 180
cagttaacat ctttcaacg gctcaatgt tgaagaccc tgtaatatat tcaggaaagt 240
taaaggggtt tggccaaag gtgacaccat acggattgga tccagttccc gcattccatg 300
aagtattatg ggaccattcg accacggga ggagcttccc ccccatgctt ggccgacgat 360
ggatgaaggc tgcg 374

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<110> 16307  
 <111> 432  
 <112> DNA  
 <113> Glycine max

<220> unsure at all n locations  
 <400> 16307

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tottaattag ggggggtcga attaagatat tgcaaaactat ttccccaatt aaaaatetat 120  
 ttcaatttca atgcaagtta caagttccct taaaatgaac tottaaataa tgattcaaat 180  
 agaacaatct gaatataaat gtaaaagcaat aataaataaa agagttaag ggaagagaaa 240  
 tggcaaatc atattatad tgggttgac acaccttgt gctatgttc agtcccaag 300  
 gaaatggct gagagtcca ctatttcta aaatccctt acaagtctg agcacacaag 360  
 gaaatcctt ctcttgggt catatcttt tacaacaaga gaccttggg ctctcaatc 420  
 ta 480

<210> 16308  
 <211> 362  
 <212> DNA  
 <213> Glycine max

<400> 16308  
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 atatatatttg ggaactcaatc ggacatccgt gctaaaagtt attgtcgatt gcatttgcta 180  
 cgaggcttcg ttttcaatta cgagcgtctc gagatattac gaaactcaat ccaacctccg 240  
 agctaaaagt tattgccgat ggcatttggc acaagcttgc gttatcaatt acgagcgctt 300  
 ctatatatta cgggacttaa tccgacctcc gagataaaag ttattgtcat ttgaaattgc 360  
 ta 362

<210> 16309  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16309

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 agtggaaaaat ttcaagtggg ttgcttgagg actggacgta gacacgggaa gtggccgaac 120  
 caatataaat caagtttcca ttccttcttt ccttaaaactt cttttattta ttgctattta 180  
 tcttttgctt taaaaaagt ttatttcaat ttcttttga gtaattcatg ttaaggggtg 240  
 attgttaatc caaaaagaga gaggaaaagt ttaattgggg aatagtcttt ctattttaat 300

tcaaccccc accccttctt aagataactg aggcatttg tccaacatcc tattcttgat 360  
 aactcacttc tctctaanaa gacaaaactt ccggaatgat aaaatg 406

<210> 16310  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<403> 16310

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 caactgaata ggcactatg tgatttcata tctagttaaa cactcactat aaggatctaa 120  
 gctacagttc actaactcag tctgcacatc tattagagga caataagcag tctaatctt 180  
 caagagggta cctggtctct ggaacaactc cttgcaccag agactcatga aaagaactgc 240  
 gatgcagat actactgat caagataacc atgcacactc accactctt taatgaataa 300  
 ctcaactact cctcagttg tataaggytg actccatgcc aaaaaatgag ctcacttagt 360  
 cagcctatcc actaccactg atatagtgc cttccctaga gctactggtt agccttc 417

<210> 16311  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16311

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 aagcatcagt tcactacttc agtctgccca tctatttgag gacaataggc agtgcctcctc 180  
 ttcaattggg ttcctgggtc cttgaacaat tctttccaaa agagactcat gaaaagtctg 240  
 tctctgtcag atactattga tgcaggaaaa ccatgcagtc tcaccacttc tttaatgaat 300  
 aactcageta cttccttagt tctataaggg tgaettaatg ccaaaaaatg agcttactta 360  
 gtcagcctat ccactaccac taatatagtg tctttccctt gagcttttgg taagcctcca 420  
 atga 484

<210> 16312

<211> 383  
 <212> DNA  
 <213> Glycine max

<400> 16312

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aatatggaga atattgggaa gaagatctat cctgcattgag ttggcttgat caacaacctc 120
atgggtctgt cctgtatgtt gcttttggta gtttcactca ttttgaccaa aaccaattca 180
atgaactagg tcttggagtt gacctcacca atagaccttt tctttggggt gtgatcaag 240
acaaatagag ggtataacct aatgaattct tggcgtgtaa aggtaagatt gtgagttggg 300
ctcccaaaa aaaggttgta agccacctg ctatagcatg ttttgcacc cattgtgggt 360
ggggcatgc tacgtgcacc cag 383
  
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<210> 16313  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
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cttcaccca agcataaaga tcttgggagt gtaacaattc cttgttcaat tggagaagtc 180
aatgtgggaa aagctcttat tgacctagga gccaacatca atttgatgcc actctccatg 240
tggtgaagat tgggagagtt ggaaataatg cccactcgaa tgactttaca attagctgac 300
cgtccatta ccaggccata tagagtaatt gaagatgttt tggtcagagt aaaatatttt 360
atcttcccag cagactttgt ggtaatggat atctctgaag atactgacat cctgttaata 420
tc 422
  
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<210> 16314  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<400> 16314

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gtatatcgag acaactcaaaa ttccagaatag aaggtctgag taaaatgaaa cgacaataac 120  
 tttttactcg gatgtccgat tgagtctcgt aatatatcga gatgctcgaa attgaaaacg 180  
 aaagctcgtg gcaaatgcga accacaataa cttcttaactt ggaatgtcga ttgtgtcccg 240  
 taatatatcg agatgtcga atttgaatac agaagctctg accaaaactt aacgacata 300  
 acattttact cggatgtcga aatgaattcc gtaatatatc gagatgctcg taattgaaa 360  
 cggagctctc gagcaaa 397

<210> 16315  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<400> 16315  
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 cgggacacaa tcggacatcc gactaaaaag gtatagtctt ttgaatttcc tcagagcacc 120  
 agttttcaat ttcgagtgtc tccatatatt acaggactca atcagacacc cgagttaaaa 180  
 gttatgtcgt ttggaatatg ctacgagctt ctgttttcaa ttgcgagcgt ctagatatac 240  
 taagggacac aatcgtccat ccgagaaaaa agtgaatgtc gtttgaattt gcacagagct 300  
 tctgatttca atttcgagcg tctcaatata ctacgggact cgatcggaca tcgagttaa 360  
 gagttattat ggtttgaatt ttctaggacc tactattatc aat 403

<210> 16316  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<400> 16316  
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 gacccacac atgccatgtc aatagtcttt cttcctgctt ctgcgcacgc tagtaacctt 180  
 ggaqatcaca ccttcggaga ttaagtctcg atgggtgaat aatcauagga taacagacat 240  
 ccatatcac aattttcttc atcagatgaa ccttttctgc aggagacttt gtccatctat 300  
 acagattgtg aacttttcag tctcagttta actactctgg cgacactaac acatatatct 360

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387

<210> 16317  
<211> 389  
<212> DNA  
<213> Glycine max

<400> 16317

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ttccaggttg ccgagattct caaagatcgt ccatcatggg attgtgactg togatgcctc 120  
aatgtattga ggttagtctc aacaggggat gggggcaca tagagcttat gtacatgcag 180  
gtctactgat ttttttatc aaaagaaaag ttgaactata gtttaaatta ttttttaatt 240  
attctatgtt tgtttctctg atattcaaat ttgatttttt ttctaaacat atgcaccaac 300  
aacattggca gctgcaagag acttctggac ttgagatac gctactagtt tgyaagatgg 360  
aagtcttatg gtttgagtg gaattctga 389

<210> 16313  
<211> 386  
<212> DNA  
<213> Glycine max

<400> 16313

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catatgacgg gagatgcac aaagttcact cttatctctc ccaagaaaag tggacatgtg 120  
acttatggcg acaacaataa aggtagaatt cttggagttg gaaaaatatg tacaaactca 180  
tctttcttca ttgagaatat tctacttggg aaaggtctta agcacaattt gctaactgtc 240  
agtcatttat gtgataaagg ctatctaata tcatatgatt ctcataaatg tgttattgaa 300  
aatgagcatg ataggaatat aaagcataca ggtgatagaa caaataatgt gtacgtgata 360  
gatttaagtc aaaaacaata ccatga 386

<210> 16319  
<211> 353  
<212> DNA  
<213> Glycine max

<400> 16319

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 cggacctccg agtgaaaagt taagaccatt tgaatttctc gagagcttcc gttgttcaat 180  
 ttgagcgtc tcgatatatt atgcgcctga atcggaactt cgagtgaaga gttatgaga 240  
 ttgaatttc tcgagagctt ccgttgcctc attacgaaag ttctgatata ttatactcct 300  
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<210> 16320  
 <211> 348  
 <212> DNA  
 <213> Glycine max

<400> 16320

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 cggacttccg ttgacaagt tatgactaat tgaatttctc gagagcattc gttgttgaat 180  
 ttcaagcgtc tcgatatatt ttgcgcctga aacggacttt catgtgacaa gttatgacca 240  
 ttggaatata tcgagagctt ccgatgttca ttatcgagct tctcgatata ttatgcgcct 300  
 gaatccgaca ttctgttgac aagttatgac catttgaatt tctcgaga 348

<210> 16321  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<400> 16321

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 acatcgaagg tcatgtcggg agtgcaaca atctcgtttt ttcttatcca aacgaacaga 180  
 ttgtgttgtt gacctgagga gaggataaag tcatcaaggt taattgtcac ataatttgc 240  
 atagatatct ataccaatc caattaaaaa accaatttcc agtgttcaaa atattgcacg 300  
 tatgggatgc cgttactcct ccagagcagt atacttatga gggacatgaa gcacctgta 360  
 ttctgtatgc cctcaccaca taga 384



<210> 16322  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<400> ensure at all n. locations  
 16322

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 caattataa gcagagattg acgattcaaa ttactatatt ataagagacc aacaaaacac 120  
 aaagcaacaa cagcttataa caccogtaac aaattctaga acatttgaat ttgcaaaaggc 180  
 cggcatgac cactttatcc taaaacttca aacacaacac ataattatta tttattgata 240  
 tatghattac agctatctct gcttgaaggt tatgcattgt gatctcaatt gcagctgcac 300  
 cggctcgcaag tgcagtttga tccacagttg cagccaccgt tctcagctgc aacaccatt 360  
 ccagcaccct cgaatt 376

<210> 16323  
 <211> 361  
 <212> DNA  
 <213> Glycine max

<400> 16323

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 gaataaaaagt ggagaatgga ggataggcga atagcgctag gcaatcaatt cgcgggttctc 180  
 ccgactcgtt ggtggaggat gaattgaatga caatcaactc atggggctcc gaataaaaagt 240  
 ggagaatgga ggataggaga atagcgctgg gcaatcaatt cgcggggctg cagactccat 300  
 ggtggaggat gcattgaatga caatcaacta gtggggctac gaataaaaagt ggagaatgga 360  
 g 361

<210> 16324  
 <211> 366  
 <212> DNA  
 <213> Glycine max

<400> 16324

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 gaggaattta aatggtcata acttggttaca cgggaagtcg atttaggcgc ataatatatc 180  
 agagctctcg aattgaaca atggaaagctc tggagaattt caaaggttca taacttgctc 240  
 aacggagctc tjtctcggc gatatgtata tctagaaatt cggaaattcaa caacccaagg 300  
 tcttgagaaa ttcaaatggc cataactctt gaaacggtag tccgattaag gtgcattata 360  
 tatcga 366

<210> 16325  
 <211> 309  
 <212> DNA  
 <213> Glycine max

<400> 16325  
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 gcatcttgaa catcaacggc cttggaatcg atgcaatcct cccaatgtga ctctctcatg 120  
 atcgagccat atatgctgga gaatgcctta tggttcttat gagccttaag gtagattttg 180  
 ggcacatgga ctaagtctga gccactcat ctttgtacat attaaatcac ggttccatta 240  
 tttctaggcc ttatattcaa ggcttcatac tgaatggagg gtaccctact catgtaagaa 300  
 ttttatacc 309

<210> 16326  
 <211> 332  
 <212> DNA  
 <213> Glycine max

<400> 16326  
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 tgaaaaatcta cactcttgtg gagtggatcc cactcaaga gttccaatct tacataaggc 120  
 gagaagatca gtggaagact caatgacata taagcatctt tataaggttga tgaatctct 180  
 cttttgcatt ctccattct acttttgacc aaggatagtt gaccatattc ctgagaagca 240  
 tcactcaaaa tctcctcagg agcttcgagg accaaatcac ttctggaactg atatgcttug 300  
 ctctcaatat cactctcact agtgccttat tcaacttcta ttttatgata atccattct 360

atggatgtga ccttattatt ac

332

<210> 16327  
<211> 314  
<212> DNA  
<213> Glycine max

<210> 16327

attaatctctg ttctgggaaac cttctcttttg tcatctggcag ccaaaccccaa tctctggggtt 40  
aaagacaaac cttctctctct cctttgtttg cttgctttagc atagctttta ttgttctctt 120  
caatttgatc ttgactcttc ccatgaagct tcttcacata gaactgtctt gcttgacctt 160  
cttcttgctt aaaaacagaa acattatgca taggcataag atcaagatga gttagtgggt 240  
taaaaccata aacaacttca aaatcatcaa aagtattagt ggtaaacata tgatttttgc 300  
taacagata tatagtgaat gtgtagcacg aaacaacctc ttaga 344

<210> 16328  
<211> 395  
<212> DNA  
<213> Glycine max

<23> unsure at all n locations  
<400> 16328

ttcttgagac catagacaaa cacactttga caatcatctg ctactaccac attgtaacct 60  
tcttcacac ttgggtcaga ccgcataatg tcatcagttt cactccatt atcatactca 120  
gaccgcacat atgcatctc aatagttctt cttctgctt cttgcatgc tagtaacct 180  
gcaggatcag ccttcggaga ttgtcttctg atgggtgaagt aatcagagga taacagaaat 240  
ccatratcac aattttctc agtcatgtaa cctttttcgc aggagacttt gtccatggat 300  
acagattgtg aacttttcag tatcatgtta actactttgg caacactagc acattttct 360  
tatatagga aagccttgat catatgaaga tcaag 395

<210> 16329  
<211> 394  
<212> DNA  
<213> Glycine max

<400> 16329

tgcttcaca caaatcttc cttgcttcgc acttcaaaa cttctcnaaa acattttgtt 40

tgggtcatat agatgtcttc ctctaaatcc ccatgcaaga atgcagtttt aacatctaac 120  
 tggctotaagt gaagattctt tgcagctaca atactcataa taactttgat ggtagtcato 180  
 tttataactg gagagaagat ctctgtgaaa tcaattccct gtttttgttg aaacctgttc 240  
 attataagtc tggccttgta tctctctcta ctgataaatt ctctctttag ctatagacc 300  
 cacttattct gtaacacttt ctctctctct gacaatttaa ttaaatacca catcttatto 360  
 ttctcaagga atgcacatct atctgtcatt gcta 394

<210> 16330  
 <211> 339  
 <212> DNA  
 <213> Glycine max

<400> 16330  
 ttctcaaca tcatactctt tccattgtgc tggaaactact tcacatggac ttgatggggc 60  
 ctatggcagt tgaaagcctt ggaggaaaga ggtatgccta tgttgttggg gatgattctt 120  
 ccagatttac ctgggtcatg ctccatgcca tagaactttc ctataatctc tgggctgaaa 180  
 ccctgaacac agcatgtac atccacaaca gagtcacact tagaagaagg actccaacca 240  
 ctctgtatga aatctggaaa gggaggaagc ctactgtcaa gcacttccac atctttggaa 300  
 gtgcatttta catctttggc agatatatag caaaggagat agatggatcc caagagtgat 360  
 gcaggaaatc tctgggata ctctacaaa 389

<210> 16331  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<400> 16331  
 agcttctggg gggacatctt gaattgcttt ccaatctgac attcaccaca gattctgctt 60  
 tcttctatct tcagattggg aatgcctcta acagcacctt tgtcaatgat tttcttcatg 120  
 cctcttaagt gcagatgtcc aaactcttga tgcacatatt tgaattcato tcttttggag 180  
 aatagacatg tggaggagta actgcttctt ttaggtgtcc ataggtaaca gttgtccttt 240  
 gattcgtgcg ctttcattag gactcactc tcttcatttg taccacaaga tcttgacttt 300  
 gtgaagtcta catcgaatcc ttcacacac aattcactga tcttgatcaa tgcgcagtc 360

agtcacctca ccagcagtag

380

<210> 16332  
<211> 294  
<212> DNA  
<213> Glycine max

<400> 16332

agcttcttga tatattatgc gcttgaa'ca gaattgcggg gaaaagttat gacctatga 60  
atttcttgag agcgtgtgtt gtccaattac gagcgtctgg agatagtatg cgcctgaac 120  
tgaatttctt ggga'agaga atgacctat agaatgtggc gagagcttcc gatcttgtat 180  
atagagcgtt tggatgaatg attaacggga atcggacttc cgtgaggcaa tctatgacca 240  
tgggagtacc gagatagcat tccctgctta aacacaaggc tctg 284

<210> 16333  
<211> 388  
<212> DNA  
<213> Glycine max

<400> 16333

agctgctgcg agattttttc cttgagaagc tagagcttag ctacgcacac ccacttaaaa 60  
actaagctca ccttcttgag aagctagagc ttagctacac acaccattt taaaactaag 120  
ctcacctcct tgacaaaata catgaaaata caaaaaaag tccctactac aaagactact 180  
caaaatgcc taaaatacaa ggctaaaacc ctatactact agaatggtea aaatacaagg 240  
cccaaaagaa ggaaaaacct attctaatat ttacaaagaa gagtgaatcc aaccttgacc 300  
catgggctgg aaaatctacc ctaagggtca tgagaatcct atggccttct ttggtagcta 360  
tagccaagc ctcttgaggt cttctatc 388

<210> 16334  
<211> 379  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16334

atcttttgc tcaatgtat tcaattgact tctggacaaa aggaagggtga tgaactaagg 60

aggaattcaa atgtaatgga gattctcaga aagacaaggt ttccccgagt tcaagacatg 120  
 ggagatgaga gttctectca gacaattctg gatcatgagt aagcccttca tctcttttcc 180  
 ttgaattctt actagcaant gatgcttaga gatcgtgaaa ctaaataaaa tgcagtccta 240  
 agtcttaagt ctacacttg ccaagaccta aactgttggg ttaattggg tagtcgata 300  
 atttgcctga gggattttaa ttaccgata ggcctttctt accttccacg aaatctctt 360  
 gttagatgc ataattgga 379

<210> 16335  
 <211> 333  
 <212> DNA  
 <213> Glycine max

<400> 16335  
 tagcttgata cgtatccaca aacgaggttg aatgcacaca ttcttgatgt ggtgtataag 60  
 aaagtganga agctactaat tgratggagg atgtacccca ttctttataa cagcagcgtt 120  
 tcaactatct tagtggctcc ttagaactca cgcaccccta ttggggaggaa ccatgataat 180  
 gagttgatct cgactataaa ggccaatctt tggcatgtct ggcgtggatta taagagactg 240  
 cccgctgcta ctaggttggg tcaattgctt ctctcattca ttgattaaga tctggagagg 300  
 ttggcatggt taccacatta ttgctttctt gat 333

<210> 16336  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<400> 16336  
 ttgcattgat tcttcgggaa cgaacacctc cggcaaccag gaattaactt tccgagaacg 60  
 cgcgctttct tctgcacagc cggcaagctt ctctgaatct catgcgttgt cttcttcatg 120  
 aattcgttgg cggagtaact cttagacctc ttgtgggtgc ttgtcttcca ggggcagatc 180  
 ggatctgaga gaatggcgcg gctccggcga gttctgcctt ttgcagtggc gacaaagacg 240  
 cggctacggg aggcgcggac ttgcagggcg cgggtagggg ttctgtttcg gggagcag 300  
 ttgaagagct tgaaggata gatgcgtgt ttggttatgg aagtcacaga ttgagtgaga 360  
 cagaatcagt ttg 374

<210> 16337  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<400> 16337

actttagaaa agaacacact ttgggttgca aataatgtat aagaacaaag tatgacact 60  
 aatttccaaag catgagaagg ttcaacatag aataacaaa actaagaata ataaataaag 120  
 tgggggaaga gttgaattta atgaatggat tacaattacc aatgggtggg gaaagatctt 180  
 taaacagaact tgaataaaag ctgacaagta ggtactttt tcccaccccg gaattctcaa 240  
 taaacaagat cttgaaagag agatcatagc cactgtcttg acctgaggat gaactcatc 300  
 tctcttctct tgatgaatgt cttaggtgtg tgtgtcaaaa agtacagtga aagaaaagta 360  
 tacaagggtg agagaga 377

<210> 16338  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<400> 16338

atctttgatg aaaaatgtgg agaggttaat gaaacaacga gatgatgcgc tccatgagag 60  
 gttggatcaa atggagaata gatattctaa tggagaagaa aggaggataa gagggaatga 120  
 tgggtgttct agacaaaagc gaattgatgg tattaaactc aacattctct ccttttaaagg 180  
 aaagaatgat cgggaggact acttggagtg ggagatgaaa atagagcatg ttttctcgtg 240  
 caacaactat gaggaggacc aaaaggtaaa gcttgccgcc acggagtttt ctgaactatgc 300  
 tcttgtgtgg tgaacaagc taaaaagga gagagcaaga aatgaagagc caatgggtta 360  
 tacatgggca gagatg 376

<210> 16339  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<400> 16339

atcatatag atactccgc ttgcttgac ctctttatg cttaaaaaa gaaacattaa 60

gcaaaagatc aagaggaatt agtgggttaa aaccataaac aatttctaaa ggagaacaat 120  
 tagtgggtgt atgaacaact ctattgtaag caaattcaac atgggggtaaa caagcttccc 130  
 aagtttttaa gttattcttc aaaactgttc taagcaaagt tcccaaagtc ctattaacaa 240  
 attcgttttg cttatcgggt tgggggtgac aag'gg'tga aattaaatatt ttagtgctaa  
 atttcttcca caagctcttc caaaaacgca gattcatgaag cctaggtata gaatgggtat 300  
 attaatggc gatgtta 307

<310> 16340  
 <311> 433  
 <312> DNA  
 <313> Glycine max

<323> unsure at all n locations  
 <400> 16340

ttaagcttaa caagtttagc tccatctcca ttgtatttta tcttgaacgg accattcaat 60  
 cctcggagga ccttttgagg tcatgtgtct tatagcaaaa ggggagagct ttctttcatt 120  
 gatagagttc acttacaaca acagttatca ctctaccata ggcattggctc cctatgaagc 180  
 tctgtatggt aaaaggtgta ggacacctct atgtttggcta aagccttgag aagacctcac 240  
 cttaggactt gaagtggtag aacaaaccac cganaaagtc aagttgatcc atgaaaggat 300  
 gaggactgct cagagtatgt agataagtta tcacgattag aggatgaaag acttgggaatt 360  
 cgaggatggc gatcatgtat tctagaaagt cactctgtgg act 403

<310> 16341  
 <311> 431  
 <312> DNA  
 <313> Glycine max

<400> 16341

gacctataaa actaagctat gctgaaacat tataatagac cccctcagct totaaaccaa 60  
 caacagcaga ataattatga tctttcaagc aacacataca atccagcttg gagaaatcat 120  
 tcaaatctga gatggacaag tcttcacaaa caacaacagc atgttctctc tttcagaat 180  
 actatttgct caagaaagct g'atgttctt cctccaatat aadaaadaaa gtcacaacaa 240  
 aadaaanaad caactgagc tcttctcaca ccttcacatag aadagttagt gaggcaaatg 300  
 actatccaga acatccaatt ttaycaagag aaaaadccct ccatccagag ttgcacaat 360



caaatgggggt agatgggtac tcagatgaac caagctcagt cccaaaattc taaaaaattg 420  
 ctttcacaaa c 431

<210> 16342  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<223> unsure at all 5' locations  
 <400> 16342

tatgaaacct aaagaaaaca agaaataata tgtttaata ttacaatnga tatgattttt 60  
 gaaaagaaaa tattataaaa aaacaaaact aacctgttg gatggcatgt gcttaaactc 120  
 gtaataacag tagtaaaaaa aatcttcttt aaaagacct tagacctcaa aattcgaagt 180  
 ggaacgtgct gcatcagtgg atgcacactg attattatat ctggctgata tttcattagg 240  
 ccttttagcaa cctcgtgta aaaagagaaa aagatatttt aactgtgaca ttgatgtta 300  
 catcatattt gagaagagat acacatgcac aagaaagtat tttctgaaa catggaatgc 360  
 agaaaaagtc aataagtttt gtctaattt aacacaatgc acaacatata ttg 413

<210> 16343  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<400> 16343

tagtgacata agccaaacac atggtatttg ctaatgtccc tatgaaagcc catccatgtc 60  
 ccaggttcca agcaaacaca gccattccc accaccacac ctgctctcca aagtaatttg 120  
 gatgccgaga ataataccac aaccttttgt caagaatagg gacctccttg ttctttctac 180  
 tcacaaagtt gtaaagctga gtatcagcaa tgtatgccgt gacaatgcc aatacacaca 240  
 caactatggc taccaagtc cactgtctca gaggttgggt caccgagtgg atgacataga 300  
 acggaagaga caatccaac agaaacacct gcaaggttgt cttgatgtaa attaaaagta 360  
 aaagcaaggg aaaatgatga ctaagagtaa ccttaattac ctgctg 406

<210> 16344  
 <211> 414  
 <212> DNA

<213> Glycine max

<400> 16344

tacatcaata ggaataataa taaaaaagaa ggcatatatt ttctgcccc tatagctcta 60  
atattgtata attggcccc caaaaaatta gtacacatt tatcttataa aatttaataa 120  
atttgacct ttgttaattt gccatcaaat ttctaatata aadgaataat gtgatattta 180  
atgtataaaa taccacgaat acatgaataa taagaatgac atgatatatt aattatagac 240  
taatatgaca tggattgttc aaattgtgat cattgttact acgtcaataa actattagtg 300  
taagttagcat atatattaga ttactagttt attttttata tggcgtaaat gctatattat 360  
taattaaata taatgtcaat aattgttaaa aatcaactaac gtaaaaaaat gtgg 414

<210> 16345

<211> 363

<212> DNA

<213> Glycine max

<400> 16345

aaactcaagc taaaaaaggc atgcgaagtg ggtggaattc ctagtgaat tctcttagt 60  
catcaaacat aggaagggaa aaggtaatat tgtatccagt gctctttctc ggcgtgatgc 120  
atcaactttct atgottgaaa caaaatggat tggctatagaa tgtttgaaaa gcatgtctga 180  
aaatgatgaa actattggag aaatttgtaa aaattgtgaa aaatcctcac ataatggttt 240  
ctgtaaacat gatcgcttac ttgtcaaaga caacaaattg agtgtgcctt aatgatatag 300  
tagaaatacg ctcgttttgtg aagcacatga tagatgttta atggggcacc ttgggggtcca 360  
aaggactc 368

<210> 16346

<211> 371

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16346

atctttcttaa nagcaattga ctgatttgc cttaattctct ccttaactcac acccaacatc 60  
tccccatctt ctggcagggt ctctctctct ccatcatcga taccaaaatct ccatcttacc 120  
acctgctctt ctcttgcatg gagacgttgc agagcctctt ctagggtcctt ctcatgaaac 180

tgccttaagga gctgtttcttc agctgttttcg gcctcaggat cagaaattac ttcttggtta 240  
 aaaacacaca agtatcagca aaatgaacat caaatgaaag caaagagttt tttttttttt 300  
 tttctggagg aaaaatttga abgagattag gacagactga gggtttaaga ttctgggtga 360  
 tcccaatctt tt 371

<210> 16347  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16347

tatttttcat taagaggctt cctctagaag ctctctogtg gcttcttttga gaagttttct 60  
 caagaggctt ctttgagaag ctacatcctt atctatccat cctcttatta actaaattaa 120  
 ctctcttaaa aataattacg gatgaaaata acgcaacaaa taatcaaaaca tcaaacataa 180  
 ttactaataa tatatagata tatatatcag ggtgtttacac atcatatatt gagacgctcg 240  
 aaattgaaca atggaagctc tcgagaaatt aaaattgtca taaattttca cagggatgtc 300  
 cgatcaggca catcagatat cgagacgctc gaaattaaaa aaacggatct cgagaaattc 360  
 aaatggtcat aattntcaca cgga 384

<210> 16348  
 <211> 371  
 <212> DNA  
 <213> Glycine max

<400> 16348

ttctttcaca tggatgtccg attcggggac ataatatatc gagacgctcg aaatcgaaca 60  
 acggaagctc tcgataaatt cgaatggtea taacatttca ctgggatgtc cgattcgggg 120  
 acataatata tcgagacact cgaaatttga caacggaagc tctcargata ttogaargct 180  
 cataacattt cacacggatg tccgattcgg ggacataact catctagacc ctcgaaattg 240  
 aacaacggaa gctctcgaga aattcgaatg gtcataagat ttcacacgaa ttttcgattc 300  
 ggggacataa tatatcgata cgttcgaaat tgaacaacgg aaggtctcra gaaattcgaa 360  
 tggtcataac a 371

<210> 16349  
 <211> 358  
 <212> DNA  
 <213> Glycine max

<400> Mouse at a.i. 1. location  
 16349

tcagcttctgt ccccaaaagct tcatgttagac tegtttttaa teyogaagtg aactctggat 60  
 tctgttcaga tacaatacta caaggaaatc catgcaacct tactacttcc ttgatgtaca 120  
 actabactag ctttggcatt ctatacttca tccgaatgaa atgttatgac catttgaata 180  
 tcttgagaga ttccttctgt cgaattctag cgtctcgata tatttatgtc ctgaatcgaa 240  
 ctcttgagtg aaatgttatg actattcgaa tttctcgaga gotttcgggtg ttcaatatca 300  
 aatggctaga tgagttatgt ccccgaaatc aacatctgtg tgaaaagata tgaccatt 358

<210> 16350  
 <211> 375  
 <212> DNA  
 <213> Glycine max

<400> 16350

tgtctgcagc gcattttctga tgaactttac cagaaattgc ggtaggaggt cccaggactg 60  
 ggaagctccc agtgaagggt tctgcttttc ttacagctga aggatcatcc agatcaagcc 120  
 ttgctataag ttcaccagcc tgcaaaaggt gatacaattt tattatcttt ttcaatttca 180  
 acaattgtac ttcctatgtg gaatagaatg ctatatacct gcattgcttg accttcagac 240  
 attttgaaat gaataatccc agaagcaggc gaaagaagag gcatgcacat tttcatgacc 300  
 tcaacttcag catacgggtg gtcagcatca acatgactgt catctgcaac caaatatctc 360  
 agaagcttgc atggt 375

<210> 16351  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<400> 16351

ttgtaagtna tatattcaat atattttata tcttttatt atgtatatgt ttatatattg 60  
 ataaatgaat aattttaggt agtataagtc aatatatttg atatchttna ttatatatca 120

tgtttatatt ttgataaatg aataatttta ggtagtataa gataataatt ttgtataggg 130  
 ctctttgtat tgttaatggt atatatgcta gatttatatt tgataaataa atagttttag 240  
 gtagtataag atttatagttt gaattgttaa tgttatatgg tagattagat ttaggtttat 300  
 atgataaatt aagaataact ttagatactc taatttata attttatag gtaatttag 360  
 aatattttta'attttgatat g 331

<110> 16352  
 <111> 419  
 <112> DNA  
 <113> Glycine max

<123> unsure at all n locations  
 <400> 16352

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 caagagcaat tgatggagct gaggtagaag ctgaagcaca gttgatgatt ggaatgatra 120  
 tctgcctaatt gtcaaaagtca ttagagacac acacccacat ctntaattgg aaaagttcat 180  
 caatctcttt atcattgaac accaactttg caagtgtagt ctccccatg cctccaagac 240  
 ccactatggg aataacacac acacttttat ctccatcacc atccccatga gggtgaggtt 300  
 gcatcaaaaag ctgataaatt tcttccctat cattatccct tccaatcact gctgaagcat 360  
 caatatgtga ataagtcatt tctctctctt gcacaagttt gtggtcaaca gaaatcctc 419

<110> 16353  
 <111> 333  
 <112> DNA  
 <113> Glycine max

<123> unsure at all n locations  
 <400> 16353

ctattcttct tcaactgcac aaggtcttta atatttgaag agtatccttg tggaaaccttc 60  
 acccgacgaa gacactgana aaaacttacc tattccttct tggacaaagt atggcaggtt 120  
 gggggcaagt aaattttctt cccatcagac ctgggatgca actctgateg tataccata 180  
 ttagctagat ctgacgggt attcaagcca tctctgctt tgccttgaat cttaaggagc 240  
 atcccaatca cactgtcaca aacattttc tccatctgga taactatcaat acaatctcta 300  
 acgtcaagat cacactagta tggagatca acgaaaatgg acctcttctt ccatacgaa 360

ctctgactnt tatecttctt ttg

383

<210> 16354  
<211> 405  
<212> DNA  
<213> Glycine max

<400> 16354

ttgatggaga gatatggcct cctctagttt ctcattctta tacaagaata caacagattt 60  
atgaacattt atttttttgtc cccagcccct acaaaagcat acataataga cctgataacc 120  
taagcttgat gtacagaagc ctcaaccacg aatttatgtc tccatgaaga atacatgcac 180  
cactgtgact cctgtactat tcccaaacca gaaggggttg caattacctt cattgactga 240  
cttttaaatg agatatgtc ggcctccat gtgcaagaca aagaggtacg ggggtgaagg 300  
gtccccttgc ctccgtcccc atgtaggagc aagagaattg caattgatag ctaacgaagt 360  
gtccatacaa tttagagagaa taccagtcct ccaagaggga atctt 405

<210> 16355  
<211> 415  
<212> DNA  
<213> Glycine max

<400> 16355

tggctttaat tataccaaga tagatgtttg cccatgagt tgcattgtgt attgggaaga 60  
agatgaaaat ttgcagattt gcaaacattg cagaaaatct agatggaaag caaaaggtaa 120  
taattgtaaa aagaatgtac tagcagatac tttcctttga aaccaagggt gcagaggtta 180  
tttgtgtgtt ccaaaatagc aaagtccatg agatgacatt ttttaaatac caacccaaat 240  
ggattgttga ggcattcaag agttgcta at gcatggaaaa gttttgatca aattcaacct 300  
gaatttgctt tagaacctag aaatgttcgc cttggccttg caagtgatgg cttcagcaca 360  
tgcgaacca tgaataataa gcatactata tggtcggtgc ttctaattcc ataca 415

<210> 16356  
<211> 399  
<212> DNA  
<213> Glycine max

<213> unsure at all n locations

<400> 16356

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tctctgantt agcaattgtt tctcttagga tctcttagaa tctcttatta gagactttag 180  
cttctccatt agtctggagg tggtaaatc aagcttcctc agttttgaca gtataagtgt 240  
ggaagacttc ctctgagttgg gaattacata aagaagatcc tccgtcattt atcaataccc 300  
ttgttgatgc aatcctaccc cgcaagggca ttggatagaa aactccaagt agattgggccc 360  
agatatgcaa gagaaggccc tatggttctt atgagcctt 399

<410> 16357

<411> 419

<412> DNA

<413> Glycine max

<421> unsure at all n locations

<400> 16357

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aaaagcataa agaataagcc tgaggtcagt taccactgct attgttcctt acaagttaca 180  
attctttctaa aagcagtttt aaagctttgt gtgtttttta aaaggcaaac caaaaggttt 240  
cgaaggttgt tttgttgaag gacttgtaca gggaaattga tagggtgaaa gaaggtacac 300  
tcaccaccac tattagtttt ggaatgtaga gaagattttg tatcttatct tttgtataat 360  
atgaatattg cagatattcg agcaacaagg gaaaagaatg gtgtatatat ttctcatga 419

<410> 16358

<411> 382

<412> DNA

<413> Glycine max

<400> 16358

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gataaadatc ggggaagac caatgcacata taagcatctt tatagggtga tgagtactct 180  
ctttccatt ctccattct acttttgacc aagcatagtt caatatttc ctacagaagca 240

tcaactgaaaa tctcatcagc agcctgcagc accaaatcac ttgttgactg atatgcttgg 300  
 ctctcaactat caactctcagc agtgccttggat tcacctctca ttttatgata atcccatctc 360  
 atggatgtga ccttattata ac 332

<110> 16359  
 <111> 331  
 <112> DNA  
 <113> Glycine max

<400> 16359

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 accaaagatg caagagaagg ccctaggggtt ctcattgagtc ttaaggtaga ttctggggcc 120  
 atgggctaag taagagccca cctatctttg taaatattag attaagggtt cattattttt 180  
 gggccttgta gttagggctc cataatgtag gtaggggtgc ttagaaatat aggatttttc 240  
 aggccttgta ttttagggca cctagactag tttttgtatt aggggtagtt ttgtaatttc 300  
 atatgcacta agtgaatatt tgatcgtgtg gttggaaata aatttaattg aattggtaga 360  
 agcccaatcc aattaaattt t 331

<110> 16360  
 <111> 333  
 <112> DNA  
 <113> Glycine max

<400> 16360

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 gagtaaaaag ttattgtagt ttgaatttgc tcagggtctc ggtattccat ttcgagcgtc 120  
 tngatatatt acgggactca atcagacatc ctagtaaaaa gttattgtcg ttgcaatttg 180  
 ctcagagctt ctacattcca ttctgagcgt ttcgatatat taagggactc aatcagacat 240  
 ccgagtaaaa agttattgtt gtttgaattt gctcagagct tcdgtattcc atttcgagcg 300  
 tctcgtatata ttacgggact caatcagaca tccgagtaaa aagttatttg cgtttgaatt 360  
 agctcagagc tctacattc aat 333

<110> 16361  
 <111> 411



<212> DNA  
 <213> Glycine max  
 <400> 16361  
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 atgagagcgc tggaaattga ataccgaagc gctgagcaca tcaaaacgac aataactttt 120  
 taactgggatg tctgattgag tcccgtaata tatcgaaaag ctggaatgtg aatgtagaag 180  
 atcctagcga attcacaaga caataacttt taactcggat gtctgattga gtcccgtaat 240  
 atctcgagat gctcgaaatg gaataccgaa gctctgagca aattcaaacg ataataactt 300  
 tttatcgga tgtccgattg agtcccgtaa tatatcggaa cgtctgaaat tgaatgttga 360  
 agctctgagc aaattcaaac gacaataaac ttttaactcg atgtctgatt g 411

<210> 16362  
 <211> 378  
 <212> DNA  
 <213> Glycine max

<400> 16362  
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 caaaagaaaag agtgatgtgt ttaatatatt taagaagtac aaagcttata ttgaaaatca 180  
 aagttctagg aagattaaag tgttgagaac tgatggaggt ggtgaataca cctcaaaaga 240  
 attcctagaa ttttgtgatg aagcaggaat tgtacatgag ttccacaccac cctacactcc 300  
 acaacacaat gggttagcag aaaggaagaa tagaaaaatt atgaatgcgg ttaggagaat 360  
 actcaaatgc aagyatct 378

<210> 16363  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<220> unsure at all n locations  
 <400> 16363

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 aagtttgaga tctttcagc atccaataaa aaggtgagac ttcataaatc aaaaaatga 120

tggtttactc aaataaatta ctttttattt ttcaagaaca atttaaattg tgttgagatt 180  
 ttttttggta aatcataaaa tgatgtagaa attaaattta aagatagaaa tgaaagagat 240  
 tgacaaggag aagtaattga attaagacat gaaccatcaa tgagttgtat atgggggtttg 300  
 tggtaagaa aaattttta tgggttaatt attaaattat ttaatttata tatgaaaaata 360  
 ctagaatttt taandacaat tatttataag aaattttata tatgactata cttaattcac 420

<210> 16364  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<400> 16364  
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 catatagaga cgttcgaaat tgaacaacgg aagctctcga gatatgdaaa tggtcataac 120  
 ttttaactcg gaggttcggat tcatgcacat tatatatoga gaagtcogac attgaacaac 180  
 ggaagctctt gagaaattca aacggtcatt actttttact cggaggttcg attcaagcgc 240  
 gtcacatata gagacgctcg caattgaaca acggaagctc togagatatt caaattgtca 300  
 taaatttcaa ctgggaggtc cgattcatgc acatataata tcgagacgct cgaaattgaa 360  
 caatggaatc cctcgag 377

<210> 16365  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<400> 16365  
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 aataaagatg ctgaatgaga gtcacatata gcttgatgag gtgctacago ttgggaagaa 120  
 ttttggaaac cagagaggac ttgggtttta tcaataaacct gctggcagaa taaccatgac 180  
 agaatttgtt cctgccaaaa acagcactgg agccacgatg tcacaacatc ggtctcagaa 240  
 tcatggaacg cagcataaaa agagtataag aaagaagtgg aggtgtcaat actgtggcaa 300  
 gtaaggtcac ataaagcctt ttgctatca tctacatggc catcacatc atggaactca 360  
 aagtacacagc aacagaagga aaatgatgtg ggtttcaaaa aagaagattg tgaatttgt 420

tggttcatac

429

<210> 16366  
<211> 407  
<212> DNA  
<213> Glycine max

<411> 16366

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cttctctctaa atccccatgt aagaaagtag ttttaacgtg taaetgctct aagtgaagat 120  
ctctctacagc tacaatattt agactaactc tgatgatagt catctttaca actggagaga 180  
agatctctctt gaaatcaatt ccttgcttct gctgaaaccc ttccaccata agtctcgcct 240  
tgtattttct ctaccatca tattctcctt ttagcctata aaccactta ttctgtaaca 300  
cttctcttcc ttctgacaat tcaattaaag accacgtctt attctctga acggatgtca 360  
cttcactctat cattgctagc tccactcaa tagaatcatt ccccttc 407

<210> 16367  
<211> 377  
<212> DNA  
<213> Glycine max

<400> 16367

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atgacaataa catcatttct ggcactaaat tgctgggagt ttgaagccgt cttctcaatt 120  
aaatttctgg ctgagcagg ggtcatgtct ccaagggctc caccactggc agcatctatc 180  
atactctctt caatgttact gagtccttca taaaaatatt ggagaagaag ctgctcagaa 240  
atctgggtgg gaaggcaact ggcacatagt tttttaaatc tctcccagta ttcatatagg 300  
ctctctccac tgagttgcct aatgcctgaa atatcctttc tgatggcagt ggtcctagat 360  
gtagugaaga atttctc 377

<210> 16368  
<211> 382  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<411> 16368

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 aaccttagat ggccagccc tcagcaacaa caacaacagc ctgctccttc cttccaaaat 180  
 gctgttggcc caagcagacc atacattcct ccaccaatcc aacaatagca acaaccctag 240  
 atacaacca cagttgaggc cctccacaa ccttccctcg aagaacttgc gaggcactgc 300  
 actatgcata acctgcagtt tcagcaagag accagagcct tcattcagag ctttaaccaat 360  
 cagatgggac aattagctac cc 382

<210> 16369  
 <211> 294  
 <212> DNA  
 <213> Glycine max

<400> 16369  
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 accactactg accacaatac agaccggtgc ccttccatgc agcaaccagg aacaatagag 120  
 cagccagaag cataagctgc aatataaac aatagacctg ctcaacctca gcagcaaaag 180  
 caaccacagc aaagcaatta tgacctctgc agcaacagat acaacctgg accggaggaat 240  
 cacctcaacc tcagaagggc agccctcagc aacaacaaca acagcctgca ccat 294

<210> 16370  
 <211> 383  
 <212> DNA  
 <213> Glycine max

<400> 16370  
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 acttcaatat actagtattc cttgogagcc tcccttgggt gtagaagaca atcggccaga 120  
 tcttcttggg cctctgtatg gtgaggttga catacaagat ttgcaggtag attgagttct 180  
 tataatcttt aaagtcttct acttttattt tcttccattt tcttgataat tgatttataa 240  
 aattcatgct aaggtctttt tttctaaat ggttacaagc tagtatctga aacagaataa 300  
 ttgtgcacac atatttaata gcataattt tacaactatg ttgtaatgat gtgttgccat 360  
 gatgaaggtt cgttatgctc cac 383

<210> 16371  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<410> 16371

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cagaataagct ttggcatctg agtctcagag aacacacccc tcagtgcaaa atgcaacaa 120
ctccacaacc acaccaatta gcaacaactc cagtggtgaag agtgagcaaa ctcatgcagt 180
cttggccacat aagagaccag aggaggagca agagtcagag gaaataggg gtgtgaaaag 240
cgttaagggt gtggaaaatg tctctctgca attcaagcct ctgaggaag atcacataga 300
gcaaatgatt gaggagcttc ttgattatgg atctattgaa ctctgctctg tcatttcacc 360
ccaggccctc taattgaatg tgcattgttt tgaagtgaat ttaaagtcac aattgtaggt 420

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<210> 16372  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16372

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agttcagcca aatatggggt agcatatctg caagagggaa ttctttctga tatagctggt 120
gagaatatca aagtggataa tgagcacaaa ggaattccaa tcttgattag gaagttgcac 180
ggcaaaaagg ttcttttgat acctgataat gtggacaagc tggagcaatt ggagtattta 240
gcaggagaat gcaattgggt ttggtttgggc agtagaatta tcataactag caggtgtaaa 300
gatgttctag ctgctcatgg agttgaaaat atatatgatg tacttaagtt aggatattat 360
caagctgtgc aacttttaag ttccaaggtc accacgggac ctgtacctga tta 413

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<210> 16373  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16373

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 gttacggggac tcaatccagac atccgggaaa aaagttattg tggtttgagt tggctccagag 180  
 attccacatt caatttccagc cgtctccgata tttccaggga ccaatttga cctccgagta 240  
 aaaagttatt gtcgtttgaa ttggtctaga gcttcaacag tcaatttcca ggcgtttgat 300  
 atgttactgc tcttgaatca gacatgccag tgaagagta tgaccatttt aatttcttga 360  
 gagcttccgt tgttcaattt ctaccgtctc gatatgttat gtgtctgaat cggacatg 418

<210> 16374  
 <211> 331  
 <212> DNA  
 <213> Glycine max

<400> 16374  
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 tctcccatct ctgatagaag tgtcttctgt agatcttcca ggccattgat tttgtttgat 120  
 tttctcttaa cattggaaag aaaacttgcg gcaccaaagt ggttcacaat gttgtttatac 180  
 aaagctgtgg caagttctgt tttccgact ccaggagtc cccatacacc caacatgcgt 240  
 acagtttcat cataagcctt catgtctagg agtgacatta cctcttccat gcggggccaa 300  
 agtccaatag ggttctgacc agtatgtaa ggattatgag ctatgtgttt atagaccttg 360  
 ttagctatct ttccaataaa t 381

<210> 16375  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<400> 16375  
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 ttgaagggga ttatcgaggt ggagaagaga aaqaatgatt ctgagaggaa ggaagacact 120  
 gaagcatgca agtacttgg agaagagaag aaaaaggttg ctgaaaagga aaaggaaatt 180  
 ggtagattga aggggttat agaggagaag aagagaaggc ttgatttga gaggaaagaa 240  
 gctactgaag cttgcaagtt actagaagaa gagaagaata agcttccctt aaaggaggag 300

attgccagaa ttgaagcaga gaaggcagtg aagtatagtt ttcagattgg tcaattagag 360  
 aaapaggtta atgaagcaaa aacaaagtty gtgtctgaga tttctacgtt tagagaggca 420  
 a 421

<211> 16376  
 <212> 420  
 <213> DNA  
 <213> Glycine max

<223> unsure at all n. locations  
 <400> 16376

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 cctcaaatca aaagggccta caacatcttc aacaagagct tctatnagag atacttgggc 120  
 gcaacgatat taagctaaaa aaaatgaaga aatcaataaa aaaatagact tgggttaaaa 180  
 agagttctaa tattttctaga cgatgttgat aacatcgaa agatggagaa tttggcaaa 240  
 gaatgtgatt agtttggctc tagaagcatg ataatcataa caacaagaga tacacatttg 300  
 ctatgtcttg ttggggctga aaagagatat gaagtgaag tgctaaacga ccaagaatct 360  
 ctggagttct tttgtaagag tgcctttaga aagagttgtc ctgaaacaaa ctacaaagat 420

<210> 16377  
 <211> 367  
 <212> DNA  
 <213> Glycine max

<400> 16377

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 gtttggtgag gaaacatcat ccagagtctt gaatcattgg tgatcataag gaaaaagtc 120  
 agacaaggaa ctctttcaag catacaactc taactttctga gatcggggccg aaacgcatag 180  
 atgatgctat gtctaataaa taactgggtc aagcaatgaa agataagttg gaccagtttc 240  
 agaagaatga tgtctagaag ctgttagaac ttcctaaagg catatagct attggagcaa 300  
 agtgggtggt cagaaacaag ctgaatgaaa tatgtaaggt tgtgagtgga acaaaagctag 360  
 gcttctg 367

<210> 16378

<211> 420  
 <212> DNA  
 <213> Glycine max

<23> unsure at all n locations  
 <400> 16378

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 attacgggac tcaatcagac atccgggaaa aaagttattg tggtttgagt ttgctcagag 180  
 attcaacatt caatttcagag cgttcgatata tattacggga ctcaatcaga catccagata 240  
 aaagttatt gtcgtttgaa ttggtttana gcttcaacag tcaatttcga gcgttttgat 300  
 atgttaactgc tcttgaatca gacatgcgag tgaaaaagtta tgaccatttt aattttcttga 360  
 gagtttcgt ttttcaattt ctacggtctc gatatgatat ggttttgaat cggacatgcg 420

<210> 16379  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<23> unsure at all n locations  
 <400> 16379

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 tggtcataac ttttaactcg gatgtgcaat tcatgcgcac cacatataga gacgctaaaa 120  
 aatgaacaac ggaagctctc caaaagttaa aatggtcata agctttcaca ctgatgtccg 180  
 attcaggctt atatttatat gagacgtca aaattaaaca tgaatgctc tcgagaaaatt 240  
 caaatggtca caactcttca ctgggatgta cgaatcaagc gcattcacata taccgacgct 300  
 cgaagtgaac caacggaagc tcccgaaaaa ttcaaagtgt cataactnta cacactgagg 360  
 tccgattcaa gcatataata tatcg 385

<210> 16380  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<400> 16380

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atcgcaacgg tgaaaatatg cagaaatgaa ttctgaacca ggtgtcccaa ttccacaatg 180  
atcacaacggc taatgagtct gggattatag ttttactagg acaggttttg ggtctctgca 240  
ggaaagaaa aagttaagat gagaaggga ttctctctac ctccaaactt gatttgcatt 300  
ttctatcggt gagaatactt gaattatdgc tgcgaacttg gtgtcgaat ttccacaata 360  
tccaaagatt aagagt 390

<210> 16381  
<211> 418  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16381

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ttatgacttt gccaagtatt atttggctact ccaagggtgt ttttaccaag caatatcac 120  
acacaactta ccttgcaaga ataacctatg agcaactgaa gttataaaaa tagcatgagc 180  
ctctctgcaa ttctgcacct gaagaaattg gtcaagggtc tttgagtgat cccattata 240  
attataataa attgcctgca ccgcataac aaaatcattc aaacaacaat aagagtcatt 300  
taagaataa tacaatactt tgcaacnatt ccagcattag caagcccatt aatcagtaaa 360  
gaacaccatg acaacaattt aattcagttt agtcataaat tgatcata 408

<210> 16382  
<211> 335  
<212> DNA  
<213> Glycine max

<400> 16382

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acttgggtgt gactcctctg ctggagatat gacattgttg gaaactggcg aaccttgtta 120  
ttctccaatc actcaggttt gataaatatt tttttttctg tataatcact atttaaaaa 180  
actcttctac ttgagaactt tgggactgtt ctatgtatga aggaactttg cttaacagaaa 240  
atctaatcat ggaacagag gactctgttc tccggacagc gaggtctgta tgcataactga 300  
gattcctcca tgacacaatc tgttaactta aatct 335

<210> 16383  
 <211> 357  
 <212> DNA  
 <213> Glycine max

<400> 16383

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 agacaaaata ggttaagggtg tgaggaacaa tgetagactt gtyaccaaag gttactcaca 120  
 ataggaaggt atacattata ttgaaacttt tgetcctgtt gctcatctag aggcaatatg 180  
 catatacta tcttttgttg ctcatcatgg tatgatgtgg tatcaaatag acgtaaaaag 240  
 aacttcttc aatggactta tcaagaagtt tatgtggaac aacccccctgc gtttgagagt 300  
 tctatctacc ctcatcatgt ttcaaaaatt aataaagctt tgtatgtgtt aaagcaa 357

<210> 16384  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<400> 16384

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 atttccaaga gtcacatcta ttcaaatgtt ttatgaatgg ccacaaaaag tgacttggaa 120  
 acacgaattt aaagagagtt ttcatctgcc aaacagtttt atgctctcaa aagattaaga 180  
 gttttttctga actgaaatgt cttatcctct caaaaagatt ccttgggtcaa ccacttgcac 240  
 attcaataag gaattttgat tgatcttcat tgtacaatct atctctttta agagagattt 300  
 cttctctctc tctctctatt tctgacacaa gatttaagag accgtgggtc tcttgttgta 360  
 gagaattctt gaacac 376

<210> 16385  
 <211> 364  
 <212> DNA  
 <213> Glycine max

<400> 16385

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cgatatatta tgcgccataa tccgacctgc gagtaagaat ttatgacctt ttgaattgct 130  
 cgagagcatt cgttgatcaa ttccaagcgt ctgagatatat tatgtgcttg aatcggacct 240  
 ccgagtggga acgtatgacc atttgaattt ctccgagagct tccattactt agttctctagc 300  
 atctcgtatg attatgtgct ctcaatcggac ttccgagtga aacgttttga cccattcga 360  
 ctcc 304

<211> 16386  
 <211> 350  
 <212> DNA  
 <213> Glycine max

<400> 16386  
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 aatcttctctga gagcttccgc tgcctcaattt cgagcgtctc gatatattat actcctgaat 120  
 ccgacctccg agtgaaaagt taagaccatt tgaatttctc gagagcttcc gttgttcaat 180  
 ctgagcgtc tcgatatatt atgcgcctga gtcggacctc cgagtggcga gttatgaaca 240  
 ttggaatctc tcgagagctt ccgttgctca ttttcgaccg tcttcatata ttatactcct 300  
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<210> 16337  
 <211> 375  
 <212> DNA  
 <213> Glycine max

<400> 16337  
 tcaattttgc agcgcatttc tgatgaactt taccagaaat tgcggtagga ggtcccagga 60  
 ctgggaaaact cccagtgaac ggttctgctt ttcttacaac tgaacgatca tccatatcaa 120  
 gccttgcctat aagttcacca gcttgcaaaa ggtgatacaa ttttattatc tttttcaatt 180  
 tcaacaattg tacttactat gttgaataga atgctatata cctgcattgc ttgaccttca 240  
 gacatttga aatgaataat cccataaaca tgcgaaagaa gaggcattga cattttcattg 300  
 aactcaactt cactatacgg tgtgtcatca tcaacatgac tgtcattctg aaccaaatat 360  
 ttcataagct tccat 375

```

<210>      16338
<211>      373
<212>      DNA
<213>      Glycine max

<400>      16338

tctatagaag gttcgttccct aattttctctt ctatttcctc acctctccaat gagctcgtga    60
ttaaataatgt ggtattttacc ttggggtgaaa aacaagatca agccttttgt ttgctcagag    120
taactctaac taaggcactt gttatagctc ttcctgaact ttctaaaaac ttgagctag    180
atttgatgc cctgggagtg ggagttggag ccttatgtt acaagggtgg caccctattg    240
cttatcttag tgaataaact catagtgcca cctccaacta ccccacctat gataaagagc    300
ctttagcctt aataagagcc ctccataact gggaacatta ccttggtttc aaagaatttg    360
taattcatag agatcctc                                     378

```

```

<210>      16339
<211>      217
<212>      DNA
<213>      Glycine max

<400>      16339

ttctttcggt ttcaattact tgtgtctcga tatcctaggg gacacaatcg gacatccgag    60
tcaaaagtta ttatcgtttg acttttctta gagctccga gtccaatttc tagcgtctcg    120
atatattaaa gggctcaatc ggacatccga gtaaaaagtt attgtcgtta gaactttctt    180
agagctttcg ttgtcaattt cgagcgtctt gatatat                                     217

```

```

<210>      16390
<211>      390
<212>      DNA
<213>      Glycine max

<220>      unsure at all n locations
<400>      16390

ttggagtttc caagtgcata ttcttctctt tctttagttc attctttctt ttgcttcaat    60
tcatcagttg cctttccttc ttgtctcagc atcttgggat attcccgagc ttgatgaca    120
gtttctcaag ttctgcatac caatgatttg aagaagggca ccattcttgc ttccagtat    180
tcatagtttc ttccatcaag aattgggtgt ctattcaata gtccctcttc ttctctata    240

```

ttcatcagaa tttatctccc cagatctcac tctgtgattt cgagtgttgg ctctgatacc 300  
aattgaaatt ctgataccag tggacagatg tegtacagga tgtcacgaca tcacgcttca 350  
aacatgcagt ttatgtgtgt cegtatgaac 390

<210> 16391  
<211> 350  
<212> DNA  
<213> Glycine max

<400> 16391  
atctttgata ggtaatttgc gaccagaggt cgttaagctc gtctctgctg atcttttcaa 60  
ccttcagttc acgtctacga ctacgcgcgt caaatagtct cagagcgaac tccttagagt 120  
ccttcattccc ttcaaaaaat taaacaaagc atacaaaact ctcaaaaaca ggagtgaaaa 180  
tgacaaaaccy attaaatgca catgcgaaac gcaagaatct gaactgaaat ttgaaaagga 240  
atcgtacctt tgcattgcgc aaaatcagtg cgagaaagat aaccgtctct ggcaagacta 300  
tagaaattgc tgtgcacctc gttccacgcg ttagcgccat tggatttact 350

<210> 16392  
<211> 409  
<212> DNA  
<213> Glycine max

<400> 16392  
tcatatatat atatattacc ttgcctacat ccgttcttat actatgtaaa aatgatctat 60  
atatcaaatt ctatctatcc tttcgtttgt tatcaatctt atacacacaa tgacatatca 120  
aattatacca tggtaatttt gataattatt atactatttt tatatacgag ggaagatcaa 180  
attataccag tataattttg ataattatta caactatttt atatacgaga ataaatcaaa 240  
tcataccgat ataactttga taactattgc attattttta taacttgata tataatgtaa 300  
tttttattga tataactgtt aagttatatt cacatattat caagattgtc cgtattatat 360  
tttgtcaaaa ttgaacaaca agaaagtaat cacattatct atatgttaa 409

<210> 16393  
<211> 314  
<212> DNA  
<213> Glycine max

<400> 16393

atcttgtctt ttccttggat atattagagg gactcatgct cactatgaat gacaaatcac 60  
ttgggataaa agtaattgtt ccattgatacc aaagcccgta ctaaggcata caacacctta 120  
tcaaaaglat aatagtaag ggtaggacca cttaactttt cactaatata agaaatggga 180  
tgacctcttt gcatcacaac agccccaatc ccaacatttg aagcattaca ctcaatttca 240  
aactatattg aaagtctggc aaagtaagta tgggggcatt atcuaactct tgcataaaa 300  
cattgaaagc tctt 314

<410> 16394

<411> 298

<412> DNA

<413> Glycine max

<400> 16394

tgggttaaaa accacccctc acctatgcc ttttattttg caatggtcga atgacaatgg 60  
tgaattgggtt gttgataaac aagcatcact tacattcttc ataggaaaat atgttgacga 120  
tgtgtctcgt gatattggtt ccattgaaga ctaacatgtg ttgcttgtac gaccttgtca 180  
tcatgataga gatgtgtt acaatggggg caccaatcaa tattctgtct tccataaatg 240  
taaaaagggtt gttctctcac ctttgccctc aatgaggtgt gtgaggatca tctaacc 298

<410> 16395

<411> 335

<412> DNA

<413> Glycine max

<423> unsure at all n locations

<400> 16395

ttctcttttc tgaaagatag aaatttgaaa ttgaaattt gaaaggtgtt atcgattacc 60  
acttgtatgt aaatgattac cagtaacgga actaaaaaaaa ttcaaattga aaaggcatga 120  
cttctcatta cataactgtg taatcgatta ccaaaagaagt gtaatcgatt accagtgagg 180  
aaattataaa agttactctg aaaagtcaca tcccttcata agttttcgaa aaaccaccaa 240  
gggcttatta atatgtgact tatctatgat agttttgaga agtttttcaa aaccttattg 300  
tcttctcttc tcaaaaaacaa atcatgggc aaaca 335

<210> 16396  
 <211> 303  
 <212> DNA  
 <213> Glycine max

<423> unsure at all n locations  
 <400> 16396

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ttctctccaa gtatttaact ccttgctggg aactgtccta aacaaaaccc ccaagagact 60
attacaaaac gacggcttgc ccctcgggtat gagggcgacc actcgttgaa cttaacatt 120
tagtgcccaa ctgtctccac aaagtccctc ataaatggct gacgaactta ggtccctat 180
aacttaacaat gctccttggc aaaccatgga gttccacaat ctccgtgaaa acaaatcagc 240
ccatcgggaa gccataataa cttgtttaca tggataaaaa tgagccaatt ctaaaaacct 300
atc 303

```

<210> 16397  
 <211> 367  
 <212> DNA  
 <213> Glycine max

<400> 16397

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atcttcta atcgattacaca agtcttctga tgcattacta gaggagattt tcaaaaaata 60
atttccaaga gtcacatctg ttcaaatggt ttttgaatgg ccaccaaagg tctatttgta 120
tgtgacttgg aacacaaaac tctttagatt ttctcagaac aaaaaggctc tatctctca 180
aaagcaaat tatcttatcc tcttaaaaat tcttggaca atacacttgc gattcaataa 240
ggaattattt tgagttctcc attgttcaat ctatctcttt caagagagat ttctctctct 300
cttcatttta ttctaaaaaa gggattaaga gatcgaggat ctcttattgt aaagcaatct 360
gaacaca 367

```

<210> 16398  
 <211> 369  
 <212> DNA  
 <213> Glycine max

<400> 16398

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ttctatctt gcccttcgat atatgagagg gagcttctg aactatgaat gaccattcc 60
ttgtgataa ggaatgtgt ccctctcac aaagcccaaa cttaattccta caactctta 120

```

tcataagtta aataggtgag ggtgggacca ctcaactctc cactaaaatg agcaattgga 180  
 tgggctctct gcatcaacac aaccccaatc ccgacatttg aagcatcgaa ctcgattacg 240  
 aaaaatcctt gaaagattcg cgacgcaagt atggggggcaa taattaacat gttgcttaac 300  
 aacattgaaa gcttcttctt gttaactctc ccaattgaa 360

<210> 16399  
 <211> 368  
 <212> DNA  
 <213> Glycine max

<400> 16399  
 tcatttctta agaataatgg cctcatcgaa cgatttatct cctgaaggga attcaataaa 60  
 tatacctctt attttcaatg gagtggggtta ccattactgg aaaaccctga tgcataatttt 120  
 tatagatgca atagatttaa atgtttggga tgcaatagaa gtatggcctt atattcccac 180  
 tatgggtggct ggaattttaa ccatagaaaa gctaaggaa gaatggactg aagatgaaaa 240  
 gagattactg caatacaaca tagaagacac aaatataatt acgtatgctt tacgaatgga 300  
 tgagtactct aaggtatcaa attgtaaaag tgctaaagaa atgtgggata cctacaacg 360  
 tacacatg 368

<210> 16400  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<400> 16400  
 tgtgtgtccg gtgtgcatga agtcatggac tctattatca atggtgttta acctggttaa 60  
 tatgaatgcc aaatatggat ggagtgcaca aagcttcaat atattgctta atgtaatgca 120  
 acgtatgctt ccagaataaa acagatcgcc aaatagttac tatggggcaa agaagataat 180  
 gtgtccgatg agtatggagt attagaaaaa tcatgcatgc cctaatgatt gcatgctgta 240  
 caaagatgag ttgaagata tgcataaatg ccttatgtgt gctgtatcac agtcaaaaat 300  
 gatagatgat acaaatatag cagtgatgaa agcatatadg aagaccctcc tatgaagatg 360  
 tgatgggtat ttcctatcat tccaaggtgt aagcatctat tt 402

<210> 16401



<211> 377  
 <212> DNA  
 <213> Glycine max  
  
 <400> 16401  
  
 tcaatcttgt tcaataaaga aaaagttatca gagaatctga tttcaatttg atgagttatat 6  
 tttttggcaaa caaatgagct atgtatctat ccacagagcc atccatttta tatttaacct 120  
 tataatctca gttatgactt atgcaatttt tttcaggttg taatggatca agtgtttagg 180  
 ttgaatttgc ctcaagagct ttgatttctt catteattgc ctgaagccac ccaggatagg 240  
 gggcagcttg atgataaaat tgaggttcat atactactaa aatcttggtta atgagagctc 300  
 tctaagggga gcttaagagcc aataatgaac aatgatgctg gatcggatat gcaatcttag 360  
 atattgggtg aacatag 377

<210> 16402  
 <211> 380  
 <212> DNA  
 <213> Glycine max  
  
 <400> 16402  
  
 tgtgcattca atactctaatt gaggggtgtc catatgttct caagactgga ctaatacatt 60  
 ttctgcccac gtttcacggt ctgttaggtg aagatctctca taagcatctt aaggagtctc 120  
 ttaattatctg ttccaccatg aagccccctg atgtccagga agatcatatc tttctaaaag 180  
 attttcctca ttctctggag ggagtggcaa aagattgggt gtactacctt tctcccagat 240  
 ccattctcaa ctgggatgac cttaagaggg tgtttcttga gaaattcttc cctacatcta 300  
 ggaccacgac catcagaaaa aacatttcag gcacatgca acttatttga gagagcttgt 360  
 atgagtactg tgaaagattc 380

<210> 16403  
 <211> 393  
 <212> DNA  
 <213> Glycine max  
  
 <400> 16403  
  
 tcttatctaa ggaattctt agtggtagaa ctctctctc ctgtctctat tccctagtag 60  
 atgttctctc cctctctctc tttctctctc cctctctctc cctctctctc atgaaaaatt 120

accattgaag gacctcattg gagctcaaag atccagcctc catagaatct tcacaagcaa 180  
 ggttccatca cctcttttcc tgtacatgac tgtgttagac gagtctatgg gatgogtgtt 240  
 ggttcaaat gatgactctg ggaaaaagga acaagccatt tactacctaa gcaagaagtt 300  
 taccgcattg gagatgaatt acacaaatgt ggaaaggagc tgcgcgcgcc tgttatatgc 360  
 tccacatcgt tttatgcagt acatgctcag tca 399

<210> 16404  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16404

ntaaactaata tctttttcta aagctcccat tctctttat cagtatttga tccaagtga 60  
 gctatttgtg aataactttt tcaaatcata taatataacc ttcagttacc atatccgtgc 120  
 atgtctttcg gaaaagagaa ataatatgcg cgcggacaca ttcatatatg aataaatcgt 180  
 caactttgtc cccgtgtgaa atatcgacga attagttcta aattttaaat ttaattatta 240  
 aatatgaaaa atgtaataaa ttaattatac aggtcattta atgataaatt aatctggtta 300  
 aattaatctt aaaaaatatt acttattctc aaattggctt ttaaataatta taacaaaata 360  
 ataaaattat ttaacaaaat taacaataaa attaatatt 399

<210> 16405  
 <211> 375  
 <212> DNA  
 <213> Glycine max

<400> 16405

ttctttcttg tactgatcaa gacagttgga atgaagaaag ctagtccac acatataggg 60  
 acggcaacco ttgtcatgag aagaacaaag aagaagaaca gcatttgttg gatattccat 120  
 gcacacagaa catgtaacat ctcccaactc tctctttcc aaagccttag aacatttgtt 180  
 ttggcagagg tcttcacaaa tgtccctttt gcaagaagcc atggggtatg gattcaactc 240  
 gaattgacga gaagcaatcc tgtgtcttcc cctgtacact ttggccattt ccuatattcc 300  
 aacadaatct ggaattttaa ctgtcaaaat gttatcaagg aatctaaatg aaatgcattc 360  
 atatatattt tatgt 375

<210> 16406  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<400> 16406

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atcttgagaga agggaaacda gaaaatcaga atcatgccat aatctttata cggggtgag 60
cagttcagac cattgataag aatcaagaca attatttga ggaggtctc aaaatgcgga 120
atctgttgga ggagttcaat atgtcctacg gtattaagaa accaaccatt ttgggggtcc 180
cagaaaatat cttcacggga tctgtttcct cacttgcag gttaatgtca gtcacagaga 240
caagttttgt gacactgggt cagcaggttc tggcaaaccc ttgaaagta cgaatgcaat 300
atgggtcctc ggacgtgttt gacagattct ggttcttggg tcggggtgga gtcagcaagg 360
cctctagagt gattaat

```

377

<210> 16407  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<400> 16407

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agcttatgct acaaacattt ataatagacc cctcaacaa caaaaccaac aacaacagaa 60
taattatgat ctttcaagca atagatacaa tccaggttgg agaatcctc caaatctgag 120
atgggcaagt cctccacaac tacaacatcc tgccctcctc ttccaaaatg ttgttggtcc 180
aagcaagcca tatgttctc ctccaataca gcaacaacaa caacagtagc agcagtcaca 240
acaaagacaa caagcaacga ggctcctcct caaccttctc tataagagtt agtgaggcaa 300
atgaccatcc agaatatgca attttatcaa gagacaagat cctccattca gagtttgaca 360
aatcagatgg ggcagat

```

377

<210> 16408  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<400> 16408

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gtggagtttc caagtgcacaa ttcgtcctct tctttttctc attcttcttc tggcttcaat 60

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tcatagtggt ggtttccttc tgtgtccagc atcttgggat gttcctagcc tttgatgaca 120  
 gtttccagg ttctgtatc cagtgatttg aggaaggcca cactcttgc ttccaatat 180  
 tcatagttgc ttcacaaag aattgggtgt ctgttactg gtccgtcttc tttctccatg 240  
 ttcacagaa ttatctccc tagatctac ttgttatt ttggtgttg ctgtatata 300  
 aattgaaatt ctgataccag gggatagag tcttaccgga tgcacagaca tcaagcttca 360  
 tcaatgcac atgttatgtg tccgtatgaa cagatigaac aagtttataa cacaacgaga 420  
 attgtttacc c 480

<210> 16409  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<400> 16409  
 ttgtcttcag aattcaatt ctagcgtctc aatagattac gggactcaat cagacatccg 60  
 agcaaaacgt tattgtcgtt tggattagtt cagagcttca gaattcaatt tgcatacgtct 120  
 cgtatatatta cgggtctcaa tcaaacatct gaggaaaaaa gttattgtcg tttgaatttg 180  
 ctgagagctt caacattcaa ttttgagcgt ctgatgtat tacgggactt tatcagacat 240  
 ccgagttaaa agttatttgt gtttgaattt actgagagct tcaacattca atttcgagcg 300  
 tctcgatatt ttacgggact caatcagaca tccgagtga aagttattgt ccgttgaatt 360  
 agctcagaga ttca 374

<210> 16410  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<400> 16410  
 tcagcttgag ctattcaacg acaatacgtt tctctgtgt atgattgagt ccgtaatgt 60  
 gttgagacgc ttgaaattga attttgaagc tgagagctaa ttcaaacyac aataactttt 120  
 taactcgatg tctgatigag tccgttaata cctcgagacg ctgaaaattg aatgttgaag 180  
 ctctcaacaa attcaaacya caataacttt ttctctcaga ttcttgattg agaccgtaa 240  
 tatatcgaga tgatcgaatt tgaattctga agctctgagc taattcaaac gacaataatg 300

atttgcctggg atgtctgatt ggtcccgta atacatcgag acgctcgaaa ttgaatgtcg 360  
 aagctctcag caaatccaaa cgacaataac tttttgctcg gatgtctgat tgaggctcgt 420  
 aatct 425

<210> 16411  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<400> 16411

tgtttagaac ctataagttc aagagccaaa ggaatgcggg aagcaaaagt gattgcaagg 60  
 ttttaatttat taatgaaatc tggatgaact ctgtcgggtc tgaaggcctt ccaacaaaagc 120  
 aattcgagag ctccacatt ggccaaaact tccacctcgt ataccttgtc aaccccatgg 180  
 gctttaaaga aatgtcgtc tetagtggta atgatgaatc tggtagcagg gccaaaacca 240  
 tcaagacttc caacaagagc tcgcaagtc tetatctcac agacatcgtc aagaacccaaa 300  
 agaagcctct tctggggag catcttcttt attagtgaat ctccttgctc gacacttgtc 360  
 agacgaatat tgttct 376

<210> 16412  
 <211> 325  
 <212> DNA  
 <213> Glycine max

<400> 16412

tgctttgaat gctctattca atggagttag caagaatata ttcagactga tcaacacatg 60  
 cacaatggcc aaggatgcat gggagatcct gaaaaccact catgaaggaa cctccaaaagt 120  
 gaagatgtcc atattgcagc tattggccac ataattccaa aatctgaaga tgaaggacga 180  
 agagtgtatt catgacttcc acatgaacat tcttgaaatt gccaatgctt gcaactgcctt 240  
 gggagaaaagg atgacatatg aatagctggc gagaaagatc ctcagatgct tgccaaagag 300  
 atttgacatg aaagtcactg caatc 325

<210> 16413  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<400> 16413

gtaaaagatt ggctaagatt ttgttaaaac ataagcactt agacaatgaa ggaaagctgg 60  
ajttgctgca caagatgtcc aacgttatgt ctaagaataa gatcgggctg cacaatgcac 120  
aaggcaaat aakttcttaa atgaagaatt caagctgagc gattcaat gctcgtatac 180  
atgtccagga catcctgctt gaaaatactg gaattgctaa aagcattgaa gctgcaggat 240  
ccacgatgtc agatataatg tcagggacat ctggcccgaa aatactggag ttgctaaaag 300  
cattgaagtt gcaggatcca cgatgtcgga tacgatgtcc attacatctt gcccgaaaat 360  
actgtacata taaatctggt atatctttta cagattattg tgcagttagc aagaga 416

<210> 16414

<211> 430

<212> DNA

<213> Glycine max

<400> 16414

ctttcctttg gttgttctat tagggtttcc aagcgttaga gagaatgaga atagattgta 60  
gtcttaatat cactgtcttc gtgcgagggg aattttctctc tctacagaca ttattttgca 120  
aatcccaaca gtgagaatct gcgaaaatga gtttcgaagg tggtaaccaa attttaggac 180  
aatctaacgg ttaatgagtt tgagatcgta attttactgg gataaatttg ggtgtatgcg 240  
agaaaaaggg aggggttttg gagaggatag agagaatgaa tttgggagga aggaggagtg 300  
taaaagacata tcgtaattgt aaaaattgac ctaatctgtc tctatttata gctaggggat 360  
tctgagacga ttattttttt ttttttttat aaaaatgaac tctattttac tctttcataa 420  
ataaataaac 430

<210> 16415

<211> 380

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16415

ttctttaag ttgtaataa tctgataagt ggttaaatgc catgaaagaa gagataaatt 60  
ccatgaaaca taatgttgtt taaggacctg tagaattacc aaagtggtgt aacagagttg 120

gttgtaagtg ggtcttcaag actaaacgta actctcatgg caaccttgaa cattacaagg 180  
ctagacttgt tgctaaggga ttacttcaga aagatgacat tgattataaa gagacctttt 240  
cacoggcctc acaaaaggat tctttcatga ttatcargg attaatagcc cattatgact 300  
tggagctaaa ttatgaggat gtagaaatg ccttctttaa tggagattta aagaatgttt 360  
ttatggacca tcaaatgggg 330

<210> 16416  
<211> 426  
<212> DNA  
<213> Glycine max

<23> unsure at all n locations  
<400> 16416

cctatggact gagcaaaaag gctcaagtea tcaaatacta ctcatctttt aaagcacaaa 60  
ggagaggattg taacctcaac cctatgttct tttaaaagac tgcaatgaga aaattacaga 120  
ggataggaat ccttggggga aaccaagaag aatacacaaa aataaaaaaa tgcagcgact 180  
tccttaattg ccccaaactc taagcgtagt atcgcttgac aacgtcggag ttcacgggtg 240  
aagatagctc ctgcgttatcc atgttggcga gcaccagggc cctctagag aaatcccttt 300  
ttacaatgaa aggaccttcg tagttcgggg cccactttcc catatgtctt ccagagcttg 360  
ggagactttc ttcagcacca agtccccctc gctaaacctg cgcangcgta ccttcttgtc 420  
agaagc 426

<210> 16417  
<211> 333  
<212> DNA  
<213> Glycine max

<400> 16417

agcttttggtc ctattcaaat agccataact ttcgacatgg gggtaggatt gaggcccatg 60  
atatatcgag aggttcgaaa ttgaaaaatg gaagttctcg agaaattcaa atggttcataa 120  
cttttaactt ggaatgcaga ttacgcaca taatatatcg agacacacaa aatgaaaaaa 180  
tggaattctc gagaaattca aatgttcata acttttgcct cgaatgtcag atthaggcac 240  
ataatatatc gagacgtcga aaattaaaca agaaaactct ggtccaaatt aaacggccat 300  
aacttttgac atgagtgat gatcgagggc catgatatat agagacgtc gaaattgaat 360

aatggaagtt ctcgagaaat taa

383

<210> 16418  
<211> 414  
<212> DNA  
<213> Glycine max

<400> 16418

agcttcaacc aggggagatg gacatattca agtgcctgaa agaattcttg acaatgctta 60  
aaaagttgag ctgcctgggtg agtataatgt tagttccacc ttcaatgctt ctgatttacc 120  
tgtttttgat gcacatggag aattcgattt gaggacaaat ccttctctatg agggagagaa 180  
tgatgaggac atgaccaaca gcaagggcaa ggtccactt gaaggacttg gaggacctat 240  
gacaagggct ajagcaagga aagccaagga agctcttcaa caagtgcctg ccatactatt 300  
tgaatacaag cccaagtttc aaggagaaaa gtccaaggtt gtgagttgta tcatggccca 360  
aatggaggag gactaaatga caccactttg gttcaatttt agagtgttta ctta 414

<210> 16419  
<211> 425  
<212> DNA  
<213> Glycine max

<400> 16419

tatgctgcaa acatctacaa tagacctctt catcctttca gcaaatcaa ccacagtaga 60  
ataattatga cctctccagc aacagataca atcccagatg gaggaatcac ctgttagaca 120  
aatggcctaa gttatcttaa gaaggggggg ttgaattaag ataacaagaa ctattcccca 180  
attaaaattt tactctctct ttttagatta acaatgcacc cttaacatga attactcaaa 240  
agacaattca aaataaactt ctttcaagcc aaagataaat agcaataaat aaaagaagtt 300  
taagggaaga gagaaatgca aacttgattt ataccagttc ggtaacttcc tgtgcctacg 360  
ccagtcctc aagcaacca cttgagattt tccactctct ttgtaaaatc cttttacaaa 420  
ctctg 425

<210> 16420  
<211> 429  
<212> DNA  
<213> Glycine max



<400> 16420

taacaatcct tgggatctat tacaggatat ttctattcct atcacataga ttgcatacct 60  
catatccctc atttcaaatg tactagaaaag aaacttctta gtctcatgaa gaagaccaaag 120  
atcattagtt gcaacaatat atcattcaac tacaggatta gaaaataaac ttactccac 180  
tgaccttcag atatatatac agatcaaatg tattttcctt aaatccaaag gaaaacaatgg 240  
taccattaaa cttcaaatac cactggcgag aagcttgcct aaaaacatat attgatttct 300  
ttaatttgcg caccatatgt tcttttccct caactgagaa ccccatgggt tgatccatat 360  
aaaattctct ctctaaatct ccattaagaa aggcattttt cacatccatc tgatgtagct 420  
ccaagtcac 429

<410> 16421

<411> 453

<412> DNA

<413> Glycine max

<400> 16421

taggacactt aaatctcagc ttccatatat ctctcccaag agaagcgggc atgtaactta 60  
tgggtgacaac aacaaaggta gaaagaattc ttggagttgg aaaaacaggt acaaattatt 120  
caaaactccat tgaaaatggt ctacttggtg aaggccttaa gcacaacttg cttagtgtta 180  
gtcaattatg tgataaaggc tatctagtat catttgatc tcaaaaatgt ctcatgaac 240  
ataaacatga tactaatata aaacatatag ggtatagagt caacaatggt tatatgatag 300  
acataagcca aaaattagat aataataaat tttttcttag caaagatgat gatccatggc 360  
tatggcataa acgtattgct cacataaaca tgaaacactt aaataaatta atttcaaaag 420  
atttagttgt tgggttgctt aaattgaaat ttg 453

<410> 16422

<411> 381

<412> DNA

<413> Glycine max

<400> 16422

adcttgaagg caaactggat ggcctggtca acttggtaac ccaactgggc ttgaatcaga 60  
aatctgtacc tctcgcaagg gtttgggttt ttgtctctc ttctgaccac cctacagacc 120

ttgccccttc catgcagcaa cctggagcaa ttgagcagcc tgaaacttat gctgcaaata 180  
 ttacaaatag attctctcaa cctcagcagc aaaatcaacc acaggagagc aattatgacc 240  
 ttctagcaa cagatacaac cctggatgga ggaatcacc tagctttaga tggctcagcc 300  
 ctctgcaaca aaacagcag cctgctctct cctccaaaa tggctctggc caagcaaac 360  
 catabattcc ttcaccaatc c 420

<210> 16423  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<400> 16423  
 atggccccct gatttcagaa caaaacccct accatggatg cagagaaggc aagcaaacct 60  
 ttgaggatca attctcacc cctgaaatct ggaataggta ggcagtgctc caccctctct 120  
 taaaactatt ggggtttcaa agaaggatc taggctgtca gcacaaatct tgattaagtg 180  
 tctgatgca attctacccc gcaaggycat tggatagaaa actccaagta gattggggcca 240  
 aagatgcaag agaaggccct agggttctta tgagccttaa ggtagatttc gggcccatgg 300  
 gctaagtatg agcccactta tctttgtaaa tattagatta aggtttcatt atttttgggc 360  
 cctghattta gggctccata atgtaagtag ggtaccctag aaatatagga tgtttcagcc 420  
 ctt 423

<210> 16424  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<400> 16424  
 agcttgtatc aaattcaaac gacaataacg ttttaactcg atgtttgatt ggcctctgta 60  
 atatatcgag acgctcgaaa ttgaaaacgg atgctctgag caaatgcaaa ccgcaataac 120  
 ttttaactcg gatttatgat ttagtaccat aatagatcga gacgctcgaa attcaaaaaa 180  
 gaagtctga ccaaaatcaa acgactataa cttcttaact ggaatctgga ttgagttccg 240  
 taatatattg aggaacaga aattcaaac agaagctcgc accataatca aadcaaaaaa 300  
 actttatatt cggatttgcg attgagtcct gtaatatatg aagacgctcc aaattgaaaa 360

cagaagctct gaacaaattc

380

<210> 16425

<211> 430

<212> DNA

<213> Glycine max

<220> unsure at all 3 locations

<400> 16425

attgagccaa ttcdaacgac aataactggn tactegaatg tctgattgag tcccataata 60

tatcgagacg gtctgaaattg aatgttgaat ctctjagcaa attcaaacga caatagcttt 120

ctactcggac gtctgattga gtccctgaac atatcgagac gtctgaaatt gaatgttgaa 180

ccctcgagac aattcaaacg acaataaactt tttaacggga tgtctgattg attcccgtaa 240

tatctcgaga ccctcgaaat tgaatgttga agccctgagc caattcaaac gacaataaat 300

ttttactcgy atgtctgatt gagtccctgt aatatagcga gacgtccaaa atggaatgtt 360

gaacctttga gccaattcaa acgacaataa ccgttttact cggatgtctg atggagtccc 420

gtactatata 480

<210> 16426

<211> 352

<212> DNA

<213> Glycine max

<400> 16426

agcttattct gcaaacatta ctaatacacc tctctacag caaaaccaat aattgcataa 60

caattatgac ctttcaagca atagatacaa tccaggttgg aggaatcacc caaatctgag 120

atggacaagt cctccacaac aacaacagat tgtgcctctt ttttagaatg ctgctagac 180

aagcatgcca tatgttgctc ctccactaca gcagcagtea catcaaagac aacaagcaac 240

tgaagctcct cctcaacctt tcttagaaga gttagttagg caaatgacca tacagaatat 300

gcagtttcag caagagacaa gagtcttcat ccagagtctg acgaatcaca tg 360

<210> 16427

<211> 424

<212> DNA

<213> Glycine max

<400> 16427

tgacccgtgt gtaagaggggt aaaaagtga agttaatctg ttgcaccaac aaagttcttc 60

aaggaccaga aaaaggttac catatgattg aaatcttgcg gtagcattga tcaactcact 120

tgaagcgttt agacggtatt tccaaaacca ttatatataa gggataattg atcatcccat 180

ttaatgagta aaagaaaaat cttaagcttac aattacaatg gtacgctgga tagtcgaact 240

ttttgagttc ggtttgaaat ttgagccaag aggtgccatc aaaggttaur aattggctga 300

cttcattggac gagttacttc ccaatgaagg ctacaacgaa cgttagtgga cattatacat 360

tgatggaaact tctaacacaa atagtactgg tgttgggggt actctgatag gaccagatgc 420

cata 484

<210> 16428

<211> 369

<212> DNA

<213> Glycine max

<400> 16428

tgcttgtgtc tacaccgctt tgcactggat aactttttct ttaattattt tttttatata 60

gaagtgttta actggaatta gaatatttga tgtataatgt ttggattttc tttgtataag 120

tattgagaac tctgttttgg tatgattatc aggcaagcaa aggatgttgt taaaggtata 180

aagaagcgga ttggaagtaa aaattcaaaa gtccaacttc ttgcactaac tgtaagcaag 240

agtgttgtaa tacaaccttt tttctcttaa actctgttga tggcattgat ctaaattctt 300

tttgtatcta agcatgtttg ctccaattgc accattttga ccttctaaac ttacattct 360

tgaactgatt 369

<210> 16429

<211> 374

<212> DNA

<213> Glycine max

<400> 16429

agcttgagtc cttaagctt agaaactata tgagacattt ccatgatgta ctctctaatt 60

tttttcccggt tatactttat ggaaatcaag ttgtgtagca atgtacttgh ttgtgcctta 120

tgcgtttttt caaagcattt ctctagttta tcaaggaaat ccttaggatt ggtgacccct 180

tgggtcattg caccoccttaa ggatttttga atgccacact acaatcttgg tttttatatt 240  
 ttgttgaaca aatgggtctca gttatcttaa gaaggggggg ttgaattaag ataacaagaa 300  
 ttattcccca attaaaattt cactctctct ttttggatta acaatgcacc ttcaacatga 360  
 attactcata agac 374

<210> 16430  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<400> 16430

gagcttgcca ccataaggaag ccattggataa gagcttgatg gtatgagaag atgaattgag 60  
 ggagagggga agaaggagca cgaaattttg tgcctcaaaa gaggtttgaa ctttgaattt 120  
 taattttcaa atgattaaag ttcaaaaaaa ggtacacaca tgacctctat ttatagccta 180  
 agtgcacac aaaattcgag ggatatttga attttacttg gatttgaaat taaatttggt 240  
 gagccaaatt ttggaaccaa aatttcacta attatgatta gtgaatttta gttatggttc 300  
 agtccactaa tccaagatca agtccaagat ttccactaa gtgtgcttag gtgtcatgag 360  
 gcatgtaaag catgaaggac atgcacatag tgtgactata tgatgtggca atgggggtgta 420  
 gcaagcaaatt gtt 433

<210> 16431  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<400> 16431

tctagatcta tttcattcca gtgtgaattc accgatggtc ttacatgcct atcaattttt 60  
 atttggttag tcttcgaacc acatcatact ttgagagagg tatgctctga taccacaaa 120  
 cctattcaca cataatgtct gggttctttt aggattgttg gttgttccca taaattaata 180  
 taagactttt tggatgttt tgtccacact tactaaaaaa actttctaga aggtcaccca 240  
 tccdataatt actttaagct aaccatgttt gactatagag ttcttaagtg atggattacc 300  
 gaaaaatata ttcattctgt tagtataggt aatacttaatt aatttctaag ttactctcaa 360  
 ttgtgcaght ttatacttac accatcttta gatctctctt attctgaggt ccat 414

<210> 16432  
 <211> 375  
 <212> DNA  
 <213> Glycine max

<400> 16432

taagctttatg catatgggaat gaaatatata caaatgacat ctatctcatg tcaaaaaatt 60  
 ttctacactt ctctctaga atttctcat gaaatctaa agtaaatata tccattacga 120  
 aattctccat tgaagtcagtt caatggctac attcatatgc acataattta tatatgtaaa 180  
 ttaataaatg agatctatta atgttctatc aatgaatact atcacatatg tcaatctatc 240  
 gaaattatta atgtcatatt cataataatc ttaggatcaa gaacaattaa aattaaaatt 300  
 atgagagact tttttctcat tttcataatc tetattatga taacaaatct ttaattttta 360  
 tcaaggacct tatca 375

<210> 16433  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<400> 16433

agctttttctt ttagcaaagc aaaggcttgc tcttgttttt cccccaggt aaatgccaca 60  
 ctctctctca ctagctcatt gagaggtgat gcaattgtag agaaattagg aacgaacctt 120  
 ctatagaagc ttgccaaccc atggaagctc ctaatatctc tccactttt taggggtgggc 180  
 cattcttggg tggccttgat tttctcaggg tccacttggg ccccatctct accaactaca 240  
 aaccttaaga aaaatatatt atctacacaa aaagtacact tctctatatt tgcatatagg 300  
 gtatttttcc taaggactga aagaacttgc ctgagatgac ctaagtgate atctaggctc 360  
 ctactataca ctaaaatatc 380

<210> 16434  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<400> 16434

agcttatgct gcaaaatatt acaatagacc tcttcaacct cagcagcaaa atcaaccaca 60

gcagaacaat tatgaccttt ccagcaacag atacaacctt ggatggagga atcacccctaa 120  
 cctcagatgg tctagccctc agcaacaaca gcagcctgtt ccttccttcc aaaatgctgc 130  
 tgggccaagc agaccatata ttctccacc aatccaacaa cagcaacaa cccagaaaca 240  
 gccaacagtt gagggccctc cacaaccttc cctcgaagaa ctggggagga aaatgactat  
 gcagaacatg cagttccagc aagagaccag agcctccatt cagagcttca ccaatccat 360  
 cagacaattg gctacccaat tga 343

<210> 16435  
 <211> 429  
 <212> DNA  
 <213> Glycine max  
 <23> unsure at all n locations  
 <400> 16435

atgaatgctc tattcaatgg agtggacaag aatatcttca gactgatcaa cacatgtaca 60  
 tgggccaagg atgcttggga gatcctaaaa atcactcatg aaggaacctc caaagtgaag 120  
 atgtccagat tgcaactatt ggccacaaaa ttcgaaaatc tgaagatgaa ggaggaagaa 180  
 tgcattcatg acttccacat gaacattctt gaaattgcc aatgcttgac tgccttggga 240  
 gagaagatga cagatgaaaa gctggtgaga aagatcctca gatccttgcc taagagattt 300  
 gacatgaaag tcaactgcaat agaggaggcc caagacattt gcaacatgag agtggatgaa 360  
 ctcatgggtt cccttcaaac ctttgagcta tgactctcgg atagggtga naagaagagc 420  
 atgaatctg 429

<210> 16436  
 <211> 376  
 <212> DNA  
 <213> Glycine max  
 <400> 16436

ttgtctttca agtttttaag ttcttcttca gaactgtctt aagcaaatgt cccaaagtcc 60  
 tattaacaac ttccgtttgc ccactgtttt gtgggtgaca agtgggtgaa aataacaatt 120  
 tagtggccaa ctggctccac aaagtcctcc aaaaatgggt tatgaactta tagtccctat 180  
 cactaacaat gctccttggc aaaacatgua gctccacaat ctccctgaaa aacaaatcag 240  
 ccacatggga agcatcatta acttttttac atggaataaa atgagccatt ttatgaaacc 300

tatcaacaac cacaaaaatg gaatctctac cattgcttgt ttttggcagc cccataacaa 360  
aatccatgga ttaatc 376

<210> 16437  
<211> 417  
<212> DNA  
<213> Glycine max

<400> 16437

gtgagcaaat tcaaacgaca ataactttta actcggatgt ccgaataagt ccgtaatat 40  
atcgagacgc tctgaattga aaactgaagc tctgagcaaa tcaaacgac attaacattt 120  
gactcggatg tctgattgag tcccgtagga tatcgagacg ctccaaattc aaaacggaag 180  
ctttgagaaa aatctaacga taataacttt taactcggat gtctgatcga gccctgtaat 240  
atatcaagat gctcgaaatt gaaaacggag gctctaagaa aagtcacaacg acaataactt 300  
ttgacttgga tctcggattg tgtcccgtag gatatcgaga tgcctgtaat tgaaaacyga 360  
agctcggaga ataatcaaac gacaataact cgaaattctg ataccagggg acagatg 417

<210> 16438  
<211> 398  
<212> DNA  
<213> Glycine max

<400> 16438

atagctctag aggcgagctg ccgctttct ctcttgaaat tgaacaacaa aagctgtcga 60  
gatattcaaa atggtcataa cttttaactc ggaggtcga ttcaggcgca tcaatatat 120  
atacgtcga gattgaacaa cataatctct cgacatatac atatagtggc aacttttaac 180  
tcggaggctc tatttatgca catcatatgt cgagacactc gaaatcgaac aatggaatct 240  
cttgagctat tcaaatggtc ttaacttttg actcagaggt ccgatgcaag cgtgtaatat 300  
atcgagacgc tctgaattgc gcaaccgaag ctactgtgaa ttgaaaatgg ccgttacttt 360  
tcaactggag gtccgatata ccgcacatac tattttaga 398

<210> 16439  
<211> 378  
<212> DNA  
<213> Glycine max



<400> 16439

agtcacacaa gttacccagg actacgtagg tetgaattcc tcatttgagg atacatagga 60  
gaaagagcct cgtttttgtc ggccgcacca caattttctg catactgaca ctggagtcac 120  
tgaatctcg gajataacca agtgggtgtc cgcacttca taaacattct ttgctatct 180  
ataggacaga aagcctgata gcatgcagag actaacatcg tcttctgac ccttcgtcaa 240  
ttggggccca acaagcccgt tgacatgcgg agatttacgt catcttccgc gtcacaaga 300  
tctgtcatac tgacatttga gtcacgctga cggacggaaa tacccgagtg gttatccgtc 360  
taaacattct ttgctat 378

<210> 16440

<211> 342

<212> DNA

<213> Glycine max

<400> 16440

agcttgacgt ttatctcaaa attgcaaaga catgaccttg tgagagggtt accaaggatg 60  
tcatacaaaag atgaacaaaa ttaaacctc ttttcaagc aaaaactttg tttcctcaag 120  
accacttgaa ctattacata ttgatctgtt tggtacaat gaatgactac attagatgga 180  
catgggtaat gttccttgct cataagaatg agtcctttga ggtattcttt aaattttata 240  
aaagagctta aatgaaaaa aaagtatgcg ttacttcaat tagaagtgat catggtggag 300  
agtttgaaaa tgagaacttt cgtctattct atgaagaaaa tggaactttt cataatttct 360  
tcatgtcata cctaatttc at 382

<210> 16441

<211> 427

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16441

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ttatgaccag aagtggtaga gcaaaccact gagaaagtta agttaattca ggaaaggatg 120  
aaaactttc agatragcca gaaaagttat catgataaga agaggaaaaga tctggaattc 180

aaggttgggtg atcatgtatt ctgaaaagtc actccgtgga ctgggggttg tgcagcattg 240  
 aaatctcgaa aattcacacc tgccttaatt ggctctttcc aaattcttaa gagagttggc 300  
 cctgtggcat accaaattgc attacccttg tctctttcta atcttcacaa tgccttccat 360  
 agtctcaac tccataagta tctctgtgat ccatcccatg tgattgaat ggatgagta 420  
 aaagtga 480

<210> 16442  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<400> 16442  
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 gatattctaa gaaggggggg ttgaattaag atattccaaa ctttttttcc ctaattaaaa 120  
 atctatctta cttttactt aagttatgaa ttcccttaat gacaatcttc ttaaatatta 180  
 attcaaatga agcaacttga atatgaatat aaagcaataa taaataaagg agattaaggg 240  
 aagagaaaat gcaaaactcag ttttatactg gttcgccac acccttgtgc ctacgtccag 300  
 tccccagca acccgcttga gattccact aacttgtaaa ttctttttac aagttctaaa 360  
 cacacaagga caacc 376

<210> 16443  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<400> 16443  
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 ctaacaacat cccaaaatgt tcaccaatat cagattcagg aacctgtatt gtgtttaact 120  
 gagaagaatc tatggacgac actaaaaccg caatagtga atttatcttc aagcagtcac 180  
 ccttgagaaa atttgacgtc tcaaggtgtc tccgtttgaa aaaccggta tagccctat 240  
 taccgaacaa gtgcattcatt gatcaatata tacgtaattgt acaccacaaa aaatggatac 300  
 aagagctaat aaatcatgat gataccaaa tcatatcacc aaaatcacaa gttctctag 360  
 ttcttttga aatttaatt ttatgtctta tatcttaata aaagagctat ctctttaacc 420

ootgacaata g

431

<210> 16444  
<211> 417  
<212> DNA  
<213> Glycine max

<400> 16444

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tgggaagggt ttgtggagggg cctcaactgt ttgatgtttc tggggctggt gatgttgttg 120  
ttgtgggatt gctggaggaa cgtatgggtct gctcgggcta tcagcatttt gacaataagt 180  
ttgctgttga ttctgtctgt gctgtgaagg atccgacctat ctaaggtttg gatgatctct 240  
ccatccggga ttgtacctgt ttctggagag gtcataatta ttctgttgtg gtctgtgttg 300  
ttgttagcat aggagcataa accacagagt ctggcgacag gcgcagatta ttgattcatg 360  
gcatcttggg ttaccaggtt aaccaaggca tctagtttac cctcaagctt cttagtc 417

<210> 16445  
<211> 360  
<212> DNA  
<213> Glycine max

<400> 16445

acacataaac atgtatagaa agttaaataa attaagaagt aataggtcac ataataaatt 60  
gaaattgaga cgaataataa gtatcatttc agaattcaac acataaaata ctttttatatg 120  
cactcttttag ttttaattatt tattaacctt tttaaattga aaataatagt aggttaattg 180  
taattattata caacattatt gtgtcaatgt aaatattaat attgggggaa gtgtatatga 240  
ttcatgaggt gtgataacat gttgcgctaa gattataaca ctgtgattga gaatgagtga 300  
atgtgataaa cgaataatgt ttgaatcgga agatatatgt gtactgagat tttatatgca 360

<210> 16446  
<211> 412  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16446

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aagacaagct ttggcatctg agtctcagag aacaccaccc tcagtgc aaa atgcaacaac 120  
ctccacaacc acaccaatta gcaacaactt cagtgtgaag agtgagcaaa ctcatgcagt 130  
gttgccacat aagagaccag aggaggagca agagtcagag gcaaataagg gtgtgaaaag 240  
ggttaagcct ggaggaaatg tctctatgca atcgaagctt ctgagagaa atcacataga 300  
gcaaatgatt gaggagcttc ttgattatgg atcattgaa ctctgctctg tcaattcacc 360  
ccangccctc taattgaatg tgcattgttt tgagctgaat cttaaagtcac aa 412

<210> 16447  
<211> 340  
<212> DNA  
<213> Glycine max

<400> 16447  
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attcgtggct atacaagaca tcttgccaaa caaagtcaag ttagccataa ctgcctgtg 120  
cttctctctc catgccatct gtagcaaaagt cgttgatcct gtcaagcctg atgaattgga 180  
aaatgatacc gcaattatac tatgccatgt ggagatgtat tttccccctg cttctcttga 240  
catcatgatt cacttgattg tgcatttggg catagaaatc aaatgttgag gtctgtttca 300  
tttgccggagg atgtaccggg ttgagcgata cttgaagatc 340

<210> 16448  
<211> 413  
<212> DNA  
<213> Glycine max

<400> 16448  
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ataaagggtg agtatggagg attgccttga gggctctctc ttatgcaatc atggaacaca 120  
gtcccaaaact cgaagtgga ggacacatga acaaccctaa gcaataacat tcatgttgct 180  
ctggaacacg atgagaatgg aagattgctt tgaaggtcct ctcttaggca atcatggaac 240  
acagctccaa actcgaaagt ggaagacaca tgaacagccc taagcaataa catctatgtg 300  
gctccggaac cggatgagaa tgaagattg ccttcagggt cctctcttcc gcaatcatgg 360  
aacacagctc caaactcgaa agtcgaggac acatgaatga caacgcaatt caa 413

<210> 16449  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<400> 16449

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 caaatgaggt ttgaactttg aagtgttaatt ctcaaatgac caaagttgaa aaatgcacac 120  
 acatgggcttc tatattatagc ctaaggggtca cacaaaattg gagggaaatt tgaattttcta 180  
 ttcataatttc acttgaatttc gaaattgaat ttgtggagcc aaatttagga gccaaaattt 240  
 cactaattat gattagttaa ttttagctat ggctcagccc actaatccaa gatcaagttc 300  
 aaattttctc ac aagtgtg cttaggtgtc atgagggcatg taaaacatga aggacatgca 360  
 caaagtgtga ttatatgatg tgacaatgag gtgttaacaag caaatgtcca cc 412

<210> 16450  
 <211> 435  
 <212> DNA  
 <213> Glycine max

<400> 16450

ttgggttgta tgatgaatta gattcattgc atagtaatga taacagaaaac tttattgtca 60  
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 aaatccttca tatataccat tggccaaagc cctaaattct gcttcagcaa tgcttctagc 180  
 taccacaate tgcttcttgc ttctccaagt aaccaagttt cccctcacgt gatataatat 240  
 ggatgaaaca ccaagataca caagtaaaca gatgaaaaat aaatccaaat gtgcagctag 300  
 acaacttgca tgtgactact attactaatt taactatgcac atatgtaaaag atatattcat 360  
 tattcaacat aaacatatcc cccaccccc cccacccag aagaaaatgt actacaaggg 420  
 aaaggtatac gatta 435

<210> 16451  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 16451

ntgggattcg ggccagacgc cagtgtcgag gacatcgatg acgacgtcgt gtgaggcctg 60

giggagggtct tgcacagaagg cggaatgggc ctggaggccc aggaactcgg ggggtgcgagt 120

ggtgtgaagc gtgtagcgcc tgtcttcgta gacggccaag acgggaatggg aagctcgaag 180

cgcttgggct tgttgagggt cgagagtggc agcgaagccg ttgttaaggcg cgggtgtaggc 240

atagaggaga gagtctggag aagaatcgag tctggcagtg taatagtcac ggttcggtggg 300

gtgcacgggtg gaatcgtggc ggtgtttcat gtgtactatg taagtcttct tggtcgcaga 360

tatagtgtg agttggagga gaaagaatga gaagaaggaa agggaaattg atgac 415

<10> 16452

<11> 435

<12> DNA

<13> Glycine max

<400> 16452

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agacttcac atcatttatg aaatgcatac cactaccaa tatcaatatg tcattccacat 120

tcacacattt atcattatta ttgatttgaa aaccatacaa aagaacaact tgatcaaact 180

ttctgtgtca ttactttgga gcttgtttca aatcatataa agatttacca agaatttata 240

agtagtacta tgcaagaat atccaacaaa aacataatca acagtctttg gtccaatttt 300

ccttttctta ttaataggga tgttaacctt tgctagacac ccacacactt taagatatatt 360

tagatttgat tatctttttc tccatagctc aaaaggggta ttttttaaaa aataattata 420

aggtaccata ttaaa 435

<210> 16453

<211> 381

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16453

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cttcgaaaga atttcagatg ttattggcat caatgatgct ccaagtggtg gtaagataa 120

tcttgaagtt tggcatgttc aggttaattag ttatctaata atgctgaata aatatcttca 180

tttttctagaa gcaattatatt tctcattttac tctaaaaatga aattatcgat tatgtctact 240  
 ttggaatgta gatatttcgt tcaattgatt caaattccgt taagggggtt ccaaaggatc 300  
 caaaagatgc aacgagcaag gtgaatgaaa agccttgggt ttcaattttt gtttgtcaga 360  
 ttgggttaa tttatcaaac c 400

<210> 16454  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<400> 16454  
 aacttatcac actgagctcc gattcagttc tacaatatat tgagaccctc gaaattaaac 60  
 atcggaagct atcgagaaat tcaaatggtc ataacgtttc acacgaaggt cagattcagg 120  
 caataaatat gtcgagatgc tcggaattca accacggaag ctctcaagaa attcaaatgg 180  
 tcaataacttt tcaacaggat gttcgattcg ggcataataat atgtcgggat gctcgggaatt 240  
 gaaccacgaa agctctcgag aaattcaaat ggtcataact tttcacacgg atgtccgatt 300  
 cggggcgata atatgtcgag atactcgaca tagaacaacg aaagctctcg agaaattcaa 360  
 atgggcataa catttcacac ggatgtcaga ttccggcacat aatatgt 407

<210> 16455  
 <211> 348  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16455

aacatctcca gtgttaattt tgcccgaccc taagagacca ttggaagtgt attgtgatgc 60  
 aagggggcaa ggcttggggg gtgtgttaat gcaagaggga agaatagtgg cttatgcttc 120  
 acgccaattg cgtctctgtg aagttaacta tccgacccat gatttgggaac tagcagctat 180  
 ggtctttggc taaaagattt ggagycatta tttataccgt actgggtttg aagttttcag 240  
 tgatcacaaat agtctcaaat acttgtttga tcagaacgaa ctcaatatga ggcaatgaag 300  
 atgcatggag ttcttcaagg attatgattt tggctttcc taccatcc 348

<210> 16456

<211> 369  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16456

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ggaacaaatgc aaaacttccc tttctatgac aaaactatgg taattgttag attacactta 120
tctagtatctt attattacac cgaaccttat gattctgatt catatgtaat tacctaatgg 180
taactaaactt atagtgcctg tgataatttc tttacagttc tgttcataac tctattatat 240
cttgtaacaa accttnggaa ccattctctag taaccaatgt tatcttactg tctctctccc 300
cttctatctt gtaatgttctt gattctctta ctggtctact agggatttat gttcgtgcgc 360
aaaaaatac 369
  
```

<210> 16457  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<400> 16457

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tgtgaaggaa taccttgaag ataattccaa accattagta attgaccgta accttgtgat 60
tgatgcgcta ccttcgggaa aaatcaatga ccttcgcaaa aatataaagc tggtaatggg 120
cgttgggttt gcaaaggagt gctacgaggt gtactgtaac tggaggaggg aaagcttaaa 180
ggagtgccta ataaatttat taggcttgcc agagattaat gtggaggaga aaagtagatt 240
gttgggaattt gaaaattaca ttcttagaag acgtattgag gctatccagg tgcctcttgg 300
aacactaatt ccagtgagc gacgactctg tgatagcgtc ttccaggggt tctcttatgt 360
ggctgatctt tgtttcactg atatttgctg gggaacctca attcaattgc tgaa 414
  
```

<210> 16458  
 <211> 370  
 <212> DNA  
 <213> Glycine max

<400> 16458

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ttctttttct ttatgatttt gatctcaaac taatgtaatg catcacaaag gcttcattct 60
ctggcgccat gaagcttgaa cccaaaacct ttgttggcaa atttccctgt cagcttaatt 120
  
```



tctttcattt tctgtcttaa ttaaattatc ctgactctgt cgttgattaa tatgctgatg 180  
 gctcatggct aacaccttca ggtgcgggtc aaaattgctt ctgatttgtt tccattaccc 240  
 gaaagcattt tcaaaaaagc catcaaggat aattataatg aaaagcacia gtccagaaca 300  
 gaacttaccg ttaacacagt aagaattaaa tgaacccctt cgtggcctgt cgtcttgttt 360  
 ctatcattct . 370

<210> 16459  
 <211> 363  
 <212> DNA  
 <213> Glycine max

<400> 16459  
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 ctctagtctt gccagtagca agtgcaagtg tgaaaagtggt ttttttagct atgaagtttg 120  
 tgaagagtca actatgtaac aaaatggatg atcaatgggt aaataatcgt cttgtaacct 180  
 ttatagaaag agatgttctt ggaacaatca acaatgaagt tatttttagct ctttttcaaa 240  
 aaatggatag tagacgattt ttattgtaaa tacatttctt taaacaacat tattttcttat 300  
 ttccaatata ttttagtcta ttagttcttt tatattttac ccacactgat atttattgtc 360  
 tggatccg 368

<210> 16460  
 <211> 347  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16460

ctencactcg ataatggaga cacatgaaca ggcctttgca atgacattca cggagctcca 60  
 aataagagag gtatattgag gaatgtcttg agggctctct cttatgcaat catggaacac 120  
 agctccaaaac tggaaagtgg aggcacatg aacaacctta agcaataaca ttcattgtggc 180  
 tetggaacag gatgagaatg gacgattgac ttgaggytcc tctcttaggc aatcatggaa 240  
 cacagctcca aactcgaagc tggaggacac atgaacaccc ctaagcaata acattctatg 300  
 ggtctcggaa ccggtatgaa atggaggaat gccttaagg accctc 347

<210> 16461  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<400> unseq at all n locations  
 16461

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ttgcttggaac cctcaagaaa ttttgggtgct actattgaac aaccttccaa cagtacaagt   60
tttgatctta atatgtcttt agttctctaa ctggcacagg cttctgatgc tctttgcag   120
tttcaacctt ctttctcttt ttttgcctagt gtttcaaatg gaaaaaatga gggtttggat   180
tttggaatct caagtgagga tgagatggag gaagaagctc ctgagacaag taacaacaca   240
attgaactta ttttaagaag ctttggcggg ttgctgatta actcaaaccc taaccatca   300
atgctaaga caaatccttt tggggygttc ttttaataatt tagcaacaag tttatctatc   360
tctacagtta ca                                     372

```

<210> 16462  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<400> 16462

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tggatttctt tttagtaagg aatctatcct tctttatatg gagccaaacc tagtccccct   60
tattaagaac tagctccttt cctcctctat tgcctttagt tgaataaacc ttgttttgg   120
tctctatttg gttcttaacc ctctcatgca acttcttcac aaactatgac ctacattccc   180
cttcttttatg tataaaagaa gtgtcaagtg ggaaggggat gaggtctaag ggtgttatgg   240
gattgaaccc atagacaacc tcaaaaagggg attgctaggt ggttctatga acccccctat   300
tgtacgaaaa tttacatga ggaatatact catcccaaga cttatgggtg ctttttagaa   360
gagcccttaa aaggggtggat aaagacctat tcactacctc tgttggcccc tta       413

```

<210> 16463  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<223> unseq at all n locations  
 <400> 16463

ttgaaatggt agattctcag actcggatta tggatgccac agctggagac tgaatgttga 60  
 tttgttatgt gtgcataat agtcagttct tgatgtaaat ttcattcttt aggtatcacc 120  
 tttatggaga ttttaacatt ttatatgtac agcttagcaa ttttaacagc atattctcttg 180  
 tagggctcat gttagactac aaagaagtha cctatctca ctttagtctt gctagctctt 240  
 ttctgatgtt caactctggg actttatgtc catatttata ttttgctcc ttttggcttt 300  
 ttatgagaagc aaaaattgat ctaacttcta ttttaaccaaa agatataagc ctctcatgga 360  
 aaaaactctt atgggtttga tgtactttga ttttaaacaa gcgtccaaca tatgggtacc 420  
 tggttgg 427

<210> 16464  
 <211> 410  
 <212> DNA  
 <213> Glycine max

tgtggctctt caagtctgga atatgaatgt agcatataga tccaaagacc cttagatgct 60  
 ttgctgatgg cttcttcccg ttccaagctt caattggagt cttgtctttt acagacttag 120  
 ttggacatct gctgagtatg taaacatcag tgtatactgc ttcagcccag aatgtgttat 180  
 gtagtccctt cttcatgagc ataaatctag ccatctccat aactgtgcga ttctttctct 240  
 cagacactcc attttgttga ggagaatatg cgactgtaag atggcgctca atgccttcat 300  
 cctcacataa tctatcgaac tcgcgagagg tgtactctat gtcgcgacac tgcttaatac 360  
 tttatcacct ttaactttga ttttaacaag ggccttgaac tgttagaata 410

<210> 16465  
 <211> 382  
 <212> DNA  
 <213> Glycine max

<400> 16465  
 agcttaaaaca ttaactctcg agcgtctcga tatattacga gtctcaaaca gacatccgag 60  
 taaaaagtha ttgcttgaa ttgtctcaga gcttcaacgt tcaattttga gctctctgct 120  
 atattacggg actcaatcag acatccgagt aaaaagttat tgtctcttgg atgggtctag 180  
 agattcaaca ttaatttctc agcgtctcga tatattacgg gactcaatca gacatccgag 240

taaaatgata ttgtcccttg aattggctca gagcttcaac attcaatttc gagcatctcg 300  
 atatatgacg ggactcaatc agacatccgt gtaaaaagtt attgtgcggt ggattggctc 350  
 agagcttcaa catcaatttc cc 382

<310> 16466  
 <311> 422  
 <312> DNA  
 <313> Glycine max

<400> 16466  
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 ctctaactaa gttgactcgt aagaatgaga aatttgtctg gaatgagaag tgtgatcaaa 120  
 gtttccaaga gttgaagagg cggttgacaa cagctccagt gttagttttg cccgaacctt 180  
 agagaccatt tgaagtgtat tgcgatgcaa gggggcaagg cttgggggtgt gtgttaatgc 240  
 aagaggggaag agtagtggcg tatgcttcac gccaatggcg tctcatgaa gtttaacttc 300  
 agacctatga cttggaacta gcagcgggtg tgtttgtttt aaagatttgg aggcattatt 360  
 tatacgggtac tctgttttgaa gttttcagtg atcacaagag tctcatatac ttgttcgata 420  
 ag 482

<210> 16467  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<400> 16467  
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 actattcccc caattaaaac ctactcagat ttttatgcaa gttctgagtt ccctttataa 180  
 taaatgaactt agatgatgaa tcaaatgagc aaactgaaat gagactaata aacaacagct 240  
 aatataagag alaaggggaa gagagaatgc acaaccagat ttatactggt tcggccacac 300  
 cctttctgctt acttcagtc tccaagcaac ccgcttgaga gtatcactat ctttgytaaat 360  
 tctttactag cattgtacca cacaacgact ttctgatgaa aatcttg 407

<210> 16468

<211> 385  
 <212> DNA  
 <213> Glycine max  
  
 <400> 16468  
  
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 tagtgggagt aaaatatgct ttcttgtttt atatgtatgt gatattttac tagcagccaa 180  
 tgcctgggggt ttgtacatg aggtgaaaca attctctctt aagaattttg acatgaagga 240  
 tatgggtgat gcatcttatg tcatcggcct ttacattcat agagatagat ctggaggtat 300  
 ctatgtgtta tcaacgaaa cctatattga caaaattcta gaagagatat cggatgaaag 360  
 attgtcacca actgttgccc ccatt 385

<210> 16469  
 <211> 351  
 <212> DNA  
 <213> Glycine max  
  
 <400> 16469  
  
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 gattaaggca tcaacaagata gagtaactta cgtatactt tgtctcaaac tggagtaact 180  
 gatagaataa actagaccct attggaaagg gcgcaatata ttctatccaa tgtaggagtt 240  
 gaataggagt gtcctgggctg aaacattcaa cgcaacatac tatctcaaga atcattcacc 300  
 atgcactatc aaaaatttta gaactcgtag tgaagaatgg tctaacaaac t 351

<210> 16470  
 <211> 413  
 <212> DNA  
 <213> Glycine max  
  
 <400> 16470  
  
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 ctccacaacc acaccaatta gcaacaactt cagtgtcaag atgcaacaaa ctatgcagt 180

gttgcacat aagagaccag aggaggagca agagtcagag gcaaataagg ggtgaaaag 240  
 ggttaagggt gtggaaaatg ttctcttgca attcaagcct cttgaggaag atcacataga 300  
 gcaaatgatt gaggagcttc ttgattatgg atttatgaa ctctgctctg tcaattcacc 360  
 ccaggccctc taattgaatg tgcattgttt tgagctgaat ttaaagtcac aa 412

<210> 16471  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16471

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 aaggtagaag gcttttatga aggggagaca catcttcat ggtgtcttga ttgccaacga 180  
 ggtcttagct gaggccaagt ctgaaataa accttgcctg gtcttcaaag cggattttga 240  
 aaagycatac gattcgggtt attggggatt tcttgactac atgctcatga ggatgggatt 300  
 ctgtgaaagg tggaggaaat ggataaatgg ttgtctatcc actgcaacca tatccattnt 360  
 agttaatgga agcccatcta aggaatttgc tctaagaga ggtctaaggc aag 413

<210> 16472  
 <211> 354  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16472

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 catcaaataa ggtctaaact ttgaagtgtg atttctttaa tgatcaaagt tgaaaaaatg 120  
 cacacacaaa agctttatct atagcctaaa tgcacacaaa aattggaggg aaatttgaat 180  
 ttctattcaa aattcacttg aatntgaatt tgtggagcca aaattttgct aattatgatt 240  
 agtgaatttc agctatggtt cagcccacta atccaagatc aagtcttaata ttctcacta 300  
 agtgtgctta gatgtcacga gacatgtaaa gcatgaagga catgcacaaa gtgt 354

<210> 16473

<211> 430  
 <212> DNA  
 <213> Glycine max

<400> 16473

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acctataaa attcagcttc caggatgggc cctgccttc agactttaa ttctaccagg 60
atgcagaga cgggaagcaa actcttgagg atcaatcttc atctctgtaa atctggaata 120
ataggcaat gttcaaccc cctctaaaac tattgggggt tcaagaagg tatttagggt 180
atagcatca atcttgatta agtgtctga tgcaatctta ccccgcaagg gcattggata 240
aaaaactcca agtagattgg gccaaagatg caagagaagg ccttaggggt cttatgagcc 300
ttagggtaga ttctggggccc atgggctaag tatgagccca cttatctttt taaatattaa 360
attaagggtt cattattttt gggccttgc tttacggctc cataatgtaa gtagggtacc 420
ctagaaatat                                     430

```

<210> 16474  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16474

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aggcaataga tctaaatgtc tgggaagcca tagaaatagg gccttatata cccaccacag 180
tagaaagaat tacaatagat ggtagtccat caagtgaag cataactata gaaaaaccta 240
gagatagatg gtctgaagag gatagaaaac gagtacaata caacttaaaa gccaaaaaca 300
taataacatc tgcctgnga atggatgaat atttcagggt ttcaaattgt aagagtgcta 360
acgaaatgtg ggcactctt cgattaacac atgaaggaac ta 402

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<210> 16475  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<400> 16475

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tgcgcacag cagttctccg actattctct tgtgtgttgg aacaagctac aaaaaggaaa 60

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agcatgatat gaagagccaa tgggtgatac atggacggag atgaaaaaga tcatgaggaa 120  
 gcygtatgtt ccygctagtt actcaaggga cttgaaattc aagctccaaa aactaaccca 180  
 aggaacaag ggggttgggg agtatttbaa ggaaatggat gtgctcatga tbaagcaaa 240  
 tattgaagaa gatgaggagg taactatggc tggatttctt aatggttga ctatgatat 300  
 ccygtatatt gttgagctgc aagagcttgc tgaatggat gatttgcctt acaagcaat 360  
 caagtggag caacaattaa aaaggaaggg agtggctaag aggagt 400

<210> 16476  
 <211> 333  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16476

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 ttgtataag ttcaccagcc tgcaaaaggt gatacaattt tattatcttt ttaatttca 180  
 acaattgtac ttcctatgtg gaatagaatg ctatatacct gcattgcttg accttcagac 240  
 attttgaaat gaataatccc agaagcangc gaaagaagag gcatgcacat tttcatgacc 300  
 tcaacttcag catacggtgt gtcagcatca acatgact 338

<210> 16477  
 <211> 258  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16477

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 gaattgatta tctcaagttc cacttggacc ccattttctac caactacgat acctagaaa 120  
 actatattat ctacacaaaa ggtacaattc tctatatttg catagaggtt gttttcctaa 180  
 ggacagaaa: aactttctga tatgtaactaa tgatctttan gctctacta tccctaaaat 240  
 tcatcaata acaacaca 258



<210> 16478  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<400> 16478

ttatgtctcaa gttatgtatgg caaaaacttat aattgtttgtt caagacatac aagtpagott 60  
 gttacaaaato ttctacactt ggagtgtatga catgcagttc tottgaacct ttaccaccca 120  
 ctatgacctt atgcacaacac tcaagacggc caagacgtat atcctttctc atgttagactt 180  
 aacaagagtc aattgtctact ttgcgcgata tactgttgaa caatagatgc ttctggatga 240  
 tacaattctt ttatgtatcc tttaagatc ttcattgata actcaacggg gtacatccac 300  
 cgcacataaaa caagaccaca acatttgatt ttctgacca gatgcacact caagtgaatt 360  
 atgatgtcaa agatggtagg gggaaaatac atctccaact ggcac 405

<210> 16479  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<400> 16479

taaacattca atttcgagcg ttctgttata ttactggact caatcagaca tccgagtaaa 60  
 aacttattgt cgtatgaatt ggcttaaagc ttaaacattc aactttgagc gtctcgatat 120  
 attacgggac tcaatcagac atccgagtaa aaagttattg ccgtttgaat tggctcagag 180  
 gttcaaaaatt caatttcgag cgtctcgata tatttcggga ctcaatcaga catccgagta 240  
 aaaagttatt gtcttttgag ttggcttaga ggttcaacat tcaatttcga gcgtcccgat 300  
 atattacgtc actgaattgg acatccgagt gaaaagttat tgacgtttga atttgccttg 360  
 agcttcaaca tcaattctcg aggtctctga tatatta 397

<210> 16480  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<400> 16480

tcttagtttc agatgagca gatgagttg tggctacctc atgcactctt ctaatgacta 60  
 tagcatcatt tctagcgctt aactactggg agtttgaagc catcttctta attaaatttc 120

tggcttcaac aggagtcatt tctctaaggg ctccaccact ggcagcatct atcatacttc 180  
 tctctatggt attgagtcct tcataaaaaat attggagaag aagctgctcc gaaatctgat 240  
 ggtgagggca actgacacat agttttttta atctctccca gtattcatat aggtctctcc 300  
 cactaagttg tctaataact gaaatactct tctgctggt tgtggtctct gaagcaggga 360  
 attcttttc taagaatact cctctgagat cctccagct cgtgctgac tt 412

<210> 16481  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<400> 16481  
 tatgctgcaa acattacaac agacctctc aatttcagca gcaaaatcaa ccacagcaga 60  
 acaattatga cctctccagc aacagataca atcccggtg gaggaatcac cctaattcca 120  
 gatggtctag cctccaacaa caacaacagc agcctgctcc ttcctttcaa aatgatgctg 180  
 gctaagcaa gccatacatt cctccacca tccaacaaca gcaacagccc cagaaacaac 240  
 aaacagttga ggtcctctcg caaccttccc tcgaagaact tgtgaggcaa atgactatgc 300  
 agaacatgta gtctcaacaa gagaacagag cctccattca gagcttaact cgccagatgg 360  
 gacaattggc tacacaatta aatcaacaac agtcccagaa ttctgacaag tt 412

<210> 16482  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<400> 16482  
 tggattgtag atccagtgca ctcaacatat tcatttttat ctacaatgtc cgcacaaaat 60  
 tctgtgggat tgagtaacta agaataacca acaaagttaa ttagtttatt aatcaagtac 120  
 ttttttttat caattataa atacatacgt gttycattat taattaattt aatacttact 180  
 tctaaccact ctgagctcc tgcaggctcc catgctgcta aaccacctt ttaactctgc 240  
 aataaaaaaa atggtgttta gttaaaaata aatgtgttag taaaagttaa taaacatca 300  
 atgatcaag tctttgtca accctaactt attattgac aatatthaag taacaaagaa 360  
 aaggggcat tagttgatt atgattggtt aattaaaaag atatgacat aa 412

<210> 16483  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<23> insure at all n. locations  
 <400> 16483

tataaacctt gacaaagaat gaagctcttga taactcttct tttaaaagtg gctctagata 60  
 ttttaagaag ggggggttga attaagatat tccaaaacttt tctcttaatt aaaaatctat 120  
 cttaacttttt acttaagtta tgaattccct taatgacaat ctctcttaaat attaatccaa 180  
 argaagcaac ttgaattatg aatataaagc aataataaat aaaggagatt aagggaagag 240  
 aaaatgcaaa cttaagtttta tactgggttcg gccacacctt tgtgcttaag tccagtcctc 300  
 aagcaacctg cttagagagt ccactaactt gtaaatccct tttaaaagtt cttaaacacac 360  
 aaggacaacc ctctctttgt gtttagagat tctntacaac aagagactca cagtctc 417

<210> 16484  
 <211> 233  
 <212> DNA  
 <213> Glycine max

<400> 16484

ttctttgaaa tctcggataa accaaatcat gttgataaat tgcaaaaagc tctttatggt 60  
 ttgaacaag ccttagggc ttggtatgaa cgcttaagta aatttcttct aaaaaagaa 120  
 ttctctagaa ggaaagtga taccacattg ttcatacaag aataagcata atgatatttt 180  
 ggctggctca aaaatatgat gatgatataa attttggaa cactaatgat tca 233

<210> 16485  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<400> 16485

tgtgcattca atactctgat gaggatgttc catatgttt caagactgga ctaatacatt 60  
 tgetgcccac gtttcctgat cttagaggtg aagatcttca taagcatctt aaggagtctc 120  
 atattgtctg ttccaccatg aaatcccttg atgtccaaga agatcatatc ttctaaaagg 180

ettttctctca ttctctagag ggagtggcga aggattggct gtactacctt gctcccaagt 240  
 ccattaccag ctgggatgac cttagaaggg tgttcttggg taaattcttc cctgcaccta 300  
 ggaaccactgc caccagaaaa gacatttcag gcacatgaa acctagtggg gagatcttgt 360  
 atgagtaatg ggaagattc aagaatgg' g'gaaaggg tctcactat agat 416

<210> 16486  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<400> 16486  
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 gcaaacaaat tctcctgtca cagttgggtg tcccaaaaac atgtctctca ccttttcaaa 120  
 ataaccgtag ctcaaggatg tcatcagcac agctttcgat ttgggttttc ctgggtgaatt 180  
 aacaatatcc ccttttttgt taacatcagc caaaagattc tcttcaaaag tgcgaagctaa 240  
 gatctgctcc aacacatgtt gaaatggctc agttctagta tcaaacactc ttatttggat 300  
 gcttactctt tcatcaactg cagctaaaata agcttgatag tatctgctaa caagtcttca 360  
 tactttgttg gtagggtgga acagatatct acccaagaaa t 401

<210> 16487  
 <211> 351  
 <212> DNA  
 <213> Glycine max

<400> 16487  
 ttcttcttga tatgtgatgt gcatgaatcg aacatccgag ttaaaagtta tggcgatttg 60  
 aatttcttga aagctttcgg tatttaattt tgagcatctc gacacatgat ggcgccgaat 120  
 tggacatccg tgtgaaagtt aagaccactt gaatttctcg agagcttcgc tattcaattt 180  
 ggagcgtctc gatatgttat ggccttgaat catcaccccg agtgaaaagt tatgaccatt 240  
 tgaatttctc aagagcttcc gttgttaaatt ttccagcctc tccatattgta atggccttgt 300  
 atctgacatc ccagtcacaaa ggtatgacct tctgaatttc ccgagagctt c 351

<210> 16488  
 <211> 331  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16488

ajccttaatg tgatgcattt ggggcaggca taggtttgtg ttgatccaag aagggcated 60  
tattgcatac ttttttagaa actgaattgaa gctgccttta gttattctac atatgataag 120  
gtaattgatg ccttaattag agctttgtag acttagcaac attatctctt gcccaaggaa 180  
tttgttatto atagtaatca tgagtctttg aaatatctga aaggacaagg aaagttgaac 240  
aagagggcatg aattttttat tcaactatgat catgagctct tgaaatatct gaaaggacaa 300  
gaaaagttga acaagaagca tgctcttggt g 331

<210> 16489

<211> 361

<212> DNA

<213> Glycine max

<400> 16489

attcttttct atgcagagaa tatccaagga aaataccttc atctgactta gcaccaaatt 60  
tccctaagtt atctttttcca ttattcaata caaaacattt acaaccaaaag atatgaagat 120  
gagagatggt tggttttctg ccattgacca attcatatgg agttttcttt aaaatgggtc 180  
ttattaaagc cctattttaa ctgtagcatg cagtgttaac ggcttcagcc caaaagtatt 240  
ttggaagagg agtatcattt aataaagttc tagcaatctc ttccagagat ctatttttcc 300  
tttcaacaac accattttga tgaggggctc ttggtgcaga aaaggtatgc ttaatcccat 360  
g 361

<210> 16490

<211> 323

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16490

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agtttaagta aactcgtaag agttccatag actcaactcg tagacttata cgagtcacat 120  
tcataataaaa ataataacaa aatatctata aataacatac caattaacaa ttttaacaat 180

ataataaagc aaaatagtaa atcataaatt tcacaatact gaaataacca agtctagtaa 240  
 tgcacacta ctagataata acctgcagat tntatagtag tggtagagca ttcccatcaa 300  
 ggaatcgatg ttattagaga ata 323

<210> 16491  
 <211> 118  
 <212> DNA  
 <213> Glycine max

<400> 16491  
 ggaattctga tgaactttac caaaaattgc ggtaggaagt cccaagactg ggaagctccc 60  
 agtgaagggt ttgtccttcc ttacagctga aggatcatcc agatcaagcc ttgctataag 120  
 ttccaccagcc tgcaaaaggt gatataattt tattatcttt ttcaatttca acaattgtac 180  
 ttccatgttg gaataaaatg ctatatacct gcattgcttg accttcagac attttgaaat 240  
 gaataatccc acaagcaggc gaaagaaagg catgcacatt tttatgacct caacttcagc 300  
 ataagggttg ttcccatcaa catgactgtc atctgcaacc aaatatct 345

<210> 16492  
 <211> 239  
 <212> DNA  
 <213> Glycine max

<400> 16492  
 tcttgatgtc ctggatcgtc ttcatcaatg gagtcctttg attcttgata atccctggct 60  
 acagatttgg taaggcagaa aggtgattgt aaacgccact ttctggagaa aatgagtcaa 120  
 ccacaagctc accaccatat gaagccgttg ataagagttt gaagtatgac aaaatgaccg 180  
 aatggagaga gagagggggg acgggggctc acagtataaa tccctttgat gacgacctg 239

<210> 16493  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16493  
 ttttgaaatt tcaaaaatat gttatttact ctctttgttt taatracagc aggatgtaat 60  
 cgaatracag tggccaaagt agttcttgaa atgttcttaa aattttgaat ttgattttaa 120

aagcctataa tgcattacac aagacttgta atcgattacc agaagttcta aacattttat 180  
 aaaagtcctt agaaatttga atttaaatat caaagcctgt aatcgattac agcttgtgtg 240  
 taatcgatta ccataactta aaattcaaat ttaagtcctt tagagtcaca actctttaga 300  
 aaaataactg tgaatcgat taacccattt tgg'aatcga ttaactagtaa ggaattttta 360  
 aaaataactc ccacacatca cactatctca aatgintttg aatggccatc aa 420

<210> 16494  
 <211> 323  
 <212> DNA  
 <213> Glycine max

<230> unsure at all n locations  
 <400> 16494

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 gctatacgag acatcttggc aaacaaagtc aggttagcca taactcgctt atgctttttc 120  
 ttccatgcta tatgtagcaa agtcattgat cctatgaagt ttgatgagct ggaaaatgag 180  
 gctycaatta tactgtgcca gttggagatg tattttcccc ctgctttctt tgacatcatg 240  
 atttacttaa ttgtgcatat ggtaagagaa atcannatgt gtggtcctctg ttatctacng 300  
 tggatgtnac ccggtgagcg atacatga 328

<210> 16495  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<400> 16495

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 gttaggttcc gccaatctaa caccgcttgc accttccag catccaatgc tactccagct 120  
 ccagagactt tatgaccaag gtattccacc tcaagtaatc caaatgaaca cttagagagt 180  
 tgagaaaata aacataacta ttgtagtgtc tgtaagacat actccaaatg acacaaatga 240  
 gttagactagg aaggyctata gaccagtata tcctcggaag aaaacaagca caaattttcc 300  
 taattcattc tgaaaaaataa tgttcattca acattgaaag gtagtgtgtg catctgtgag 360  
 tccaaatggc ataacaagcc attcataatg gccatgatga gtctaaaaag ca 420

<210> 16496  
 <211> 335  
 <212> DNA  
 <213> Glycine max

<400> 16496

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 ttaacacata aggtttgagt ttgactaatt atctctataa ggcttaactt tgcctataga 120  
 aaaagtctag ctgtggcgagt ctaattaaaa gcttgccttaa agacgtcttt gatcaattaa 180  
 ttaattttaaa atttagtgaa atactaacta aaaaaaagaa acttataaaa ttttaatatga 240  
 gtaagtaca aatccaaaaa taattgataa acaaaaatcat attgaattca agtagttaaa 300  
 atacaaagaa tatataaaaa atgaaaaaaa gagag 335

<210> 16497  
 <211> 334  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16497

tttctttaac ataaaagagca tacttatttt tacaacgaac aaacccttg tcttggaagt 60  
 acttgcctaat gcgactattc catgccctcg gtgcttgctt tagaccatac aacgccttgt 120  
 tcaatttcaa gatatttctt tcttgacctt tgatgagaaa acccattggt tgttcaacat 180  
 aaacattttc ttcaagatag ccatttagca atgccgattt tacatcaagc tgaaaaaactc 240  
 tccacttcat ttgagctgcc aaggaaataa aaagacgaat tgtctccatg cagacaaccg 300  
 gtgcaaacac ttcattcataa tcaactccat attg 334

<210> 16498  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<400> 16498

tactgttgac aaaaatctta ttgatgttgg ttatttaang gtatttacttg cagtgcataag 60  
 gccttaactt ttacttata tgcacatttt ctaattattt ttatttaaac caataaggtt 120  
 tttaaaaaag gagtggatgc ggatactgtg gttttgatgg cagctcaagc ttcaagactt 180



gagaatcaag atgcaataga cactgccata gttggaatgt tggctgatac aaaagagggt 240  
 agtcattgat atattattca ccgcgattct ttgatgaca tatttattag ctgcaajcct 300  
 ttaactgtaa tctgcagatc atcataattg ttactgtatt ttagtctgng ttttaatttt 360  
 ttgtctaa ttactgtac aaaggtctgt ttgtctatc aajaaajtaa 410

<210> 16499  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<400> 16499  
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 ctattttcag attgggaatg cctctaacag cactttgtc aatgattttt ttcattgcctc 120  
 ttaagtgcag atgtccaaat ctttgatgcc atattctgac ttcattctct ttggaggata 180  
 gacatgtgga ggagtagctg gtttcttgag gtgtccatag gtaacagttg tcttttgatc 240  
 tgcctgcctt cattagaact tcactcttct catttgctac caagcattct gaatttctga 300  
 agttttacatt gaatccttca tcacacaact gactgatgct gatcagggtt gcagtcagtc 360  
 ccttcaccag cagtactttg ttcagactaa gaagtcacac atgaact 407

<210> 16500  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<400> 16500  
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 gccttggctt tatctacaca gacttcactc aatcagaga aacagaaagc tgatgaattt 120  
 gaaagaaaat acaacgaagc ccaagtttgt agcgaagaaa gaggtaaaaa actggaagac 180  
 acggagaaga agacacgtca gcttcaagaa tcactgacta ggtaatatata ataatgaaaa 240  
 gtatgccttg atgtaattgt tttccgtga taatcaatga tgtctttgcaa gggagagcct 300  
 tctcacaatg ttaagtttgt tacttgtaac cctgaggtta ccagtcacaaa tcttggaaac 360  
 agtctctctg ctataggagt tacagctaca tacatttact acacagacc ctacttg 417

<210> 16501  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<23> unsure at all n locations  
 <400> 16501

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 taaaggattt gcttaccaga tgacagtaaa gtgcgaactt tctcatcagg aacctgcttc 120  
 tgaattctctt ttaactcaaa atcatttagca taaggaagat tagtatgtcc attaaaataa 180  
 ctattgttta ttgcggaagc gtcaagaagt gggttaaaga actgaaaaat aaaaccagct 240  
 gtcaaaacttg aacggttaagt gggtttttgag gtatcatctt taggtacaat agtggctgta 300  
 aaccaagatga cagcatcgta tagaatgcta gcacttaaaa gctttccagc taaaaactcc 360  
 taaacattnt ttgctctgat tgcattgctta ctcccataag caccaaaaga caacc 415

<210> 16502  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<400> 16502

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 tagagatgaa gtccaacaat acatacatcc aatgcgctca gcttcaacca tacgaagatc 120  
 taaaggaatt tcttgaaact gtgcagcaat ttgatgatct ccaagagata aattgtgtga 180  
 aacatatgct tttatgggtc ctgctccctt tgtgaatcct gtgtcaacgg tcaaatggat 240  
 aggattgggt acttctcgag aataaaaattc atggattaat gcactaccac cagttactcc 300  
 aagaacagtt gaatacctgc atgaaataac cataattagc tacagtgaaa ggaggttcat 360  
 aaactgggtat aatagaacat tctctaagaa cataaagagt aagaaggaat aaaa 414

<210> 16503  
 <211> 327  
 <212> DNA  
 <213> Glycine max

<400> 16503

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aagatcttct tcatcaatgg attcctttgc ttcttggaag atgaatggca gcggaatgga 120  
gaaagggaga gagagaggag acgcacttc aaggagaaga tgagtctaga agaagctcac 130  
taccatatga ggccatggat aagagcttgg aggaagaagg agatgaatga acggagaggg 240  
agagaagagc acgacattt gggtcnaat gaacttgaat ttgtagtga atalcnaatg 300  
atccaaatga aaaaatgcca ccttacc 317

<210> 16504  
<211> 410  
<212> DNA  
<213> Glycine max

<400> 16504  
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gcaagttgaa agccttggag gaaagaggta tgcttatgtt gttgtggatg atttctccag 120  
atttacctgg gtcaacttta tcagagagaa atcagacacc ttggaagtat tcaaggagtt 180  
gagtotaagg cttcaaagag aaaaagactg tgcacatcaag agaatcagga gtgaccatgg 240  
cagagagttt gaaaacagca aatttactga atactgcaca tctgaaggca tcaactcatga 300  
gttctctgca gccattacac cacaacagaa tggcatagtt gaaaggaaaa acaggacttt 360  
gcaagaggct gctagggtca tgcttcatgc caaagaactt cctataatc 410

<210> 16505  
<211> 401  
<212> DNA  
<213> Glycine max

<400> 16505  
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cagagattga tgggtgcgcyg tatatgaagt atatctctgc acgtcacctg agttcagagt 120  
nagtgtgaca caaattgcgg ggccggccgac aaaagtgaat ctcttgctcc tacgtatcct 180  
naattttgtga tgaggaactt aaacttacgg tattcttgat actgtgagac taaatagttc 240  
cgtgtgtttt tcactacaat ccgaacatgc attagtaaaq aaacaaaact tccaactgat 300  
caaagcaaca tatgtttttt tctatgaaga caatgtgtct attgcggaaa gagagtgtac 360  
tgataataat ttcacataac catatatgag attttgatga t 421

<210> 16506  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<400> 16506

atgaaacgg tgggtttctc atggaactct tggaaatgaa atagcaacat ttcttgcaact 60  
 gaagtgtgg gaggagaaag caatctctc aatcaaatc caaacctcag taggggtcat 120  
 atcarcaaga gtccaccac tggcagcacc aatcatactc ctctccatgt tgctaaggcc 180  
 ctcatagaaa taatatataa ggagttgtct agaaatctag tgggtgaggac agctcgaca 240  
 caattctctg aatctttccc agtaactata caagctctct caactaagtt gctaattgpc 300  
 tgaaatgtct ttcttgatgg cagtggctct agatgcaagg aagaatatct caagaacac 360  
 ccttttaagg caatcccaga tgagaatgga tc 392

<210> 16507  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<400> 16507

ttcttgcaac atatcaccta tgttcaccac tagggttctc tcacatgggt ttatatctat 60  
 caactctccc ttatttgatc tgacttgaag cctctctatc tcattgttgat ataagatagt 120  
 aatacaactc atatcaatgt gcatcccaag cccctcaact tgatcttcta taacttctgg 180  
 agctgagtaa tegtttacc aacatatcca accatgaaca ctctttcata ctgattcac 240  
 ttcttgctctg ttcttttggg taactttcat cgatagtctt catgatgcaa accatttacc 300  
 ttccaaaagt ttacctatac ctcaattttt gctaactgac atggtaattg graagcctaa 360  
 caagtacatg gaaa 374

<210> 16508  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16508

tgttcattag atttttcaaa aattattata aaattattca accatcataa gcataaatgc 60

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 gataatgctt ttttgataaa ctaatcaacg acgctaagaa attgagttaa accttgatct 180  
 ctaatcagaa acagaatcct caccatgaag cagttccaag gccactccgt cccgtccctt 240  
 cccgaacgt cccgctcga aatcccccga taattggatt ccaaccagct attctcagaa 300  
 cccgctctt ccttctccgg aaacttcgt cccgcccgg aagccatcgt cctcttcag 360  
 tagaagaacc ctcattcgc gccgcagcg cagagt 396

<210> 16509  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<220> unsure at all n locations  
 <400> 16509

agcttatgct gccaacactt ataatagacc ccttcagcag caaaagcaac aacaacagaa 60  
 taattatgat ctttcaagca acagatacaa tccaagttgg agaaatcctc taaatctgag 120  
 atgggcaagt cctccacaac aacaacaacc tgctccctctt ttccagaatg ttgctggctc 180  
 aagcaagcca tatgttcttc ctccaatata gcaacaacaa caacaacagt cacaacaaag 240  
 acaacaagca actgaggctc ctctcaacc ttcttagaa gaattagtga ggcaaagtac 300  
 catccagaat atgaaatttc agcaagagac aagagcctnc attcagagtc tgacanatca 360  
 gatggggcag atggctactc 380

<210> 16510  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<400> 16510

tatgacaatt tgaatttttc gagagcttcc gaagattaat ttccagcgtc ttgatatt 60  
 ataagtctga atcggacctc cgtgtgataa gttatgacca ttggaatttc ccgagagctt 120  
 cgtttgttca atttcagcgc ttccgatgta ttatgcgctt gaattggacg tccaggttaa 180  
 aaggtatgac tatttttatt ttccgagagc ttctgtgtgt caatttgag cgtctcttca 240  
 tggatgcgc ctaaatcaga ctttccattt aaaagttatg accatttgaa ttcttcgata 300

gcttttcgtta ttcaatcttg agctttctcta tatgtgatgc gccagaatca gactttctgtg 360  
 ttaaaagtta tgaccatttg aatttctcga gagctttcgt tgttcaattt gatatg 416

<210> 16511  
 <211> chr  
 <212> DNA  
 <213> Glycine max

<210> 16511  
 attttgggat gaaaacagat tgattccatc aaaattacat ctctgctgag aagaactttc 40  
 ctttcagttg gtgaacagat cctatagcct ttcactccat caccataacc catgaacaga 100  
 cctttctac attaacatga taataagcat tgcagccaaa tactcttagg ttgagtagt 140  
 ttgttgggtt gccattccat atttcaatag gagttttaag tccatagca gttagaggtg 240  
 tctatattaat tagaaagcaa gtgtattga tagcttctcc ccaaaaaactt ctgttgagac 300  
 gagcatagga caatagacat ctgttcttt ccaggagtgt tctattccatt ctttca 360

<210> 16512  
 <211> 349  
 <212> DNA  
 <213> Glycine max

<400> 16512  
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 gagagctaga aatgaagagc caatggttga tacatggacg gagatgaaaa agatcatgag 120  
 gaagcgggat gtccggcta gttactcaag ggacttgaaa ttcaagctcc aaaaactaac 180  
 ccaaggcaac aaggggggtg aggagtatct caaggaaatg gatgtgctca tgattcaagc 240  
 acatattgaa gaaaagacga ggttaactatg gctcgatttc ttaatgggtt gactaatgat 300  
 atccgtgata ttgtgagct gcaggagttt gttgaatgga tgatttgc 349

<210> 16513  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<400> 16513  
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ttccggggaaa taatatatcg agacgcacga aattgaacaa cggaagctct cgagaaattt 120  
 gaatgggcat aacatttcac tcggatgttc gatccgggga cataatttat cgagacgctc 180  
 gaaattgaac aacgaagct ctgcacaaat tagaatggtc gtaacttttc acgcgaatgt 240  
 tggatcggg gaaataactc atcagagc tggaaatga tacaacggaa gctctcgaga 300  
 aaattgaatg gtaataagt ttcaacaa tttcatttc cggaaacata tatataaaa 360  
 gcatcgaaag tgaagaagg agctct 387

<210> 16514  
 <211> 330  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 16514

cttagttctt agttatgaac agacacaatt cacatgcagt accgtttggt tcataattgt 60  
 gctggagaat tacttacggc agaaattgac actggaagtg ataattggaaa gcgagcccca 120  
 cagtatatgg agaagggaca gttggtcctt gacgaaattg ttgcgatggt atgtatgtat 180  
 gtatgtcgtg actaatttct cttcaattct tgtttctcat atcatatcct tgctttctgtt 240  
 tatgctatat agatggtaaa gagcgtctct tgaaccaga tttnaaagag aatggttggc 300  
 ttttgatgg atatcccacg agcttatcac 330

<210> 16515  
 <211> 373  
 <212> DNA  
 <213> Glycine max  
  
 <400> 16515

atacccaaaa tcttatctac agaaccaagg tctttcatat caaaatttct agacaagaaa 60  
 aacttcacat catttatgaa attcatttac taccaaatat caatatgtca tccagataca 120  
 taaaatgacg catccattat catcaaattg tttcacatac acacatttat cactatcatt 180  
 aatttgaaaa tcatacaaaa gaataactta atcaaaacttt tgtgtcaatg atttgagct 240  
 tttttcaaac catacaaaaga attaacaatt tattttttcaa gaaaaaatat tttcaagaa 300  
 attcacatct atagactcca taatagtaac attagaaatt tcaaatactt ctgaattaat 360  
 aattaagaat cta 373

<210> 16516  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<210> 16516  
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 aattcaagca caagagactt gatcattgco atcttgaaag aatgctaaac atgaaaaaaaa 120  
 gaaatattgc aaaagaaaat tgaagaagtt tcaaatggaa gaatgcaagt ctgttagcac 180  
 accatgaat caaaaggaga agtttagcaa ggaagaaggt gttgataaca ttgatgaagg 240  
 atattatggg agcttgattg gatgtctaat gtatctcact acaacaagat caaacattct 300  
 atttgcctca aagaacaaaa ctggaatttt tgttgacaat caagtagcca ttgctattgc 360  
 aaacaatctc gttgtgtcatg ggaagactaa acatttcaac atc 403

<210> 16517  
 <211> 368  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16517

atgggaacca ggaaaaatga aatgaacaga aaacgcttgt gggattatcg tctacgggco 60  
 ttatacagag aaacgaatca aggacctaaa aagggtattat taaagagggt aaaaaaacgg 120  
 aaattgtaaa acaagaataa cataataaca gtatttttact tgagtcataa cataatttct 180  
 ttatatattta ttatttgata atcgatacac attataagta tttagtttta ctatttatat 240  
 tggttactag atataaaaact tagacggaat atacgcgtta accgtaaaaa tcataaaaat 300  
 gtttttcgat agataagtat atnttcatgc tagaatttat tgacacatac gaatttttgtg 360  
 tttcatga 368

<210> 16518  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16518



atcttaaaaga tgcctccaaat taagattttca accactcgtt tcagagtctt aatttcatta 60  
 tttagattcta catgcatgta cttgtgtata tttcatgtgt tgttgcatac cgtaaagata 120  
 ataaataaat taaagtagca aagattacaa cggttatgtt tactagcata ttggaatat 180  
 tattaaatag aaattttatt aaaaatataa taaatatatt gataatatta atgtttatat 240  
 aatatttaatt acatatatttc atttaattgtt atagtataat tatccatcta ttatttcagg 300  
 cgtttggate aacctctgat ccaacccgat tcaatccaat taaattagat tgaatttttt 360  
 aagtgtttta gtcataattca attcaac 387

<310> 16519  
 <311> 370  
 <312> DNA  
 <313> Glycine max

<330> 16519  
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 aggaaaataa acaaatatat tcgccgagaa ataggagaga gggatttgaa ccttcaatag 120  
 ttcttttttt cgaactatat tgattttcaa gactgaagtt gtcaaccact caaccatctc 180  
 tccaaaagat aatttatatt ctatatttat ttcattgaat aaaacatgag catataaatt 240  
 gatacttatt atgtgtgtac ccataagggt tgaacaacta ccaagggtat ggctgagaac 300  
 cttttcgggc aaagccaaac acccccagcc ataaccagat atcccaaggt gactaattac 360  
 ccttcgggct 370

<310> 16520  
 <311> 392  
 <312> DNA  
 <313> Glycine max

<323> unsure at all n locations  
 <400> 16520

ctgganaatg atttcttttc aaaagttagt cgtatttatgc gactaacaaa ctgcaataa 60  
 agcaaacaaa gaatggtaaa ttatttagtc agtcaaaaata ttgcaaaaga ctaactaaca 120  
 agtttgguat gcaaaatuct aaacacatgg ccactcttat gagcactgac tgcctatctgg 180  
 ataaagatga aaccgatcaa tcaatagata taaagaaata tagaggtatg atcaatctc 240

ttcttttattt atttgcaagt agacttgata taatgttttag tgtttgtatg tgtgcaagat 300  
 aaccaagcaaa tcccaaaagaa tctcacctta gtgcagttaa aagaataatg agatacttat 360  
 taggtaactat aaatctatga ttatgggtatc ct 392

<210> 16521  
 <211> 345  
 <212> DNA  
 <213> Glycine max

<400> 16521  
 ttttaagcct aagatactta tctgtggggg gagttcgtat cccaggggaat gggactatgc 60  
 caagttcaaa caggttgctg ataagtggtg ggcagtggtg atgtgtgata ttggtcctat 120  
 cagtggtctt gttagggcta aggtgatttg aattttctgt cttttctctt tgttcttgtt 180  
 gaattatgtt atcattttta tgggtgttta tgcattctgaa ttagtcttct ttggagtgtt 240  
 gaggcagatg tattgtatgc tctagaacta gtatagatgg agttgataga acaatttaag 300  
 tggctgtact atgaaccaac atcttcagac ttattcctgt cttat 345

<210> 16522  
 <211> 365  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16522

tttgcattgca ttcttgaact tttaaagcgt aaagttacgt tactgtgtta ttattaaga 60  
 ttaattcttt agaaagcgt aacatgttgt tgtgcttgaa ttatttatta aaattaattg 120  
 tatgtttatt ttgtatttta agcatacaat attaagctaa actaaataat ttatgcatat 180  
 taaatttaat ggtaagagt ttatatgttt caaatattag ataattcatat gcatataata 240  
 tttaattaat tctgaagttt tgtgtgtatg atttatgatt ttatacatgc ganatttatct 300  
 tgaattatctt atataatatt atttgggtta ttacattat ttaaaatatt atataaataa 360  
 ttage 365

<210> 16523  
 <211> 356  
 <212> DNA  
 <213> Glycine max

<400> 16523

tgttettaaca tcaagaccact tccaggggtgc tggaaactact tcacatggac ttgatggggc 60  
ctatgcaagt tgaagagcctt ggaagaaaga ggtatgccta tgttggtgog gatgatttct 120  
tcagatttac ctgggtcaac tttatcatag agagatcaga aacctttgaa gtaattcagaj 180  
agttagagctt aggccttcac acagactgig tcttcaagag aatcaggagt gacctatggca 240  
gtaatttga aaatagcaag ctacatgaat tctgcacatc tcaaggcact acatcatgagt 300  
ttttgttagc caatacacca caacaccatg gcatagttga acggaaaaca agactt 366

<210> 16524

<211> 348

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16524

cgctttgaga aactcanatg gtcattactt ttcactcgga tgtccgattc atgcgcacca 60  
catgtcgaga cgctcgaaat tgataaatgg aagctcttga gcaattcaaa tggtcataaa 120  
ttttcactcg taagtccaat acaggcgcat aatatatcga gaggctcgaa attgaacaac 180  
ggaagctctc gagaaattca aatggtcata acttttctact cggagggtccg attcatgtgt 240  
ataacatata gagacgcttg aaattgagca acggaagctc tcgagaattt caaatggcca 300  
ttacttttca ctgggaggtc cgattcaggc gcataacata tagagacgct ccaaattgat 360  
taacggaagc tctagagaaa ttcaaatg 388

<210> 16525

<211> 346

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16525

atctngacag gtttatgtgc aagtgtgct actggtggag gcacttgaat ttggttgcca 60  
gaactcaagg tgatggcact cacatttttt ggattctgca aagtttggga agtcaatttg 120  
tcagaatttt cggactcagc ttgattcact tgagtagcca tctgcacctt ttgatttgct 180  
agactctgaa tggaggtctt tgtctcttgc tgaaattgca tattctgcat cgtcatttgc 240

ctcactaact cttctaagga aggttgagga ggagcctcag tttcttggtg tctttggtgt 300  
gactgctgct gtattggagg aggaacatat ggcttgcttg gaccagcaac attctg 356

<210> 16526  
<211> 418  
<212> DNA  
<213> Glycine max

<223> unsure at all n. locations  
<400> 16526

attcttatgg ttgttctact agggtttcca agcatcatag agaaggagaa gggattagag 60  
ccaccatttc actatctccg tgtgagggaa attctctctt ctatagacat tatttcacia 120  
atcccacacag tgaaaatttg cagaaatgag ttcttaacct ggttttcaaa tttcatgatg 180  
atctaattgt taacgagttt gagatcgtag ttttactcag acaaatttgg gtgtatgcga 240  
gaaaaagaaa ggattttgag agagggagaa gggaaaacga atttgagagg aagagagagc 300  
gtaaagacat atcgtaaattg taaaaactaa cctaatatgt ctttatttat agttagagtg 360  
atctcagcct attatttact ctatttttct taaatttata aaaagaaact ctatttta 418

<210> 16527  
<211> 394  
<212> DNA  
<213> Glycine max

<400> 16527

tgtaatcgat tacacacata ttgtaatcga ttactatagg agtttttccag aaaacattct 60  
caacagtcac atctttttgt gtggttcttg aatggctatc ataggcctat atatatgtga 120  
cttgagacac gaatttcata agagtttttc agaacaaaaa gatcttatcc tcttataaag 180  
caaaatcggt ttatctctctt acaaattcct tggccaaatt acttgatgatt caataaggaa 240  
ttattttgagt gctcaaatta ttcaatctat ctctttcagg agagatttct tcttttcttc 300  
ttcttcattc tgaaaaggga ttaagagacc gagggctctt tgttgtgaaa gaattctaaa 360  
cacaaaggaa gggttgtcct tgtgtgttta gaac 394

<210> 16528  
<211> 376  
<212> DNA

<213> Glycine max

<400> 16528

ttctttgatg aatattttgg agaggttaat gaaacaacaa gatgatggcg tccatgagag 60  
gttgatcaaa atgtgagaat gagatcaaaa tgaagaagaa agggaggagaa gagggaa'ga 120  
ttcttttttt agataaaatt gaattgatgg tattaaactc aacattcctc catttaaagg 180  
aaagiatgat cgggaggcct acgttgagtg ggaga'gaaa atagagcattg tttctctatg 240  
caacaactat gaggaggacg agaaggtgaa gcttgcgcgc acggagtttt cggactatgc 300  
tcttttgttg tggaacaagg taaaaagga gagagcaaga aatgaagagc caatggttga 360  
tactggagcg gagatg 376

<110> 16529

<111> 407

<112> DNA

<213> Glycine max

<400> 16529

tgtacattca atttcgagcg ttccgatata ttacgggtact caatcggaca tccgagtaaa 60  
aagttattgt tgtttgaatt tgttcagagc ttcaacattc aatttcgagc ttttcgatat 120  
attaaggggac acaatcagac atccgagtaa aaagttattc tegtttgaat ttgctcaggg 180  
cttcggtaat ccatttcgag cgtctcgata tattacggga ctcaatcaga catccgagta 240  
aaaagttatt gacgtttgaa ttgctcaga gcttctacat tcacattcga gcttttcgat 300  
atattacgga ctccatcaga catccgagta aaaagtgcct tgcggttgaa ttgctttaga 360  
gcttctacaa tcaatttcga gccttttcgat atattacggg actcaat 407

<110> 16530

<111> 385

<112> DNA

<213> Glycine max

<400> 16530

tgcttgagcc agtctcaaat cactatgttg ccttgagcca tcccgacaaa cagtctctga 60  
gccataaggg gaccacctt tgacctctc catctctaac atgccatctc caaagtgtga 120  
cccaaccgga acataaatca ttccatggag aacaagctga gtgataagag tcaacggggt 180

ctctttctgtg acacctctctt gagaactagt gcttgagaag aacctctgcag gtttttctgc 240  
tagtgccctgt gtagtccaca gccctataga gccttctaaa aatgc 235

<210> 16531  
<211> 244  
<212> DNA  
<213> Glycine max

<400> 16531  
gtacatctgcy gcctgcattt tgagtttttc ttcattggaag tcccggtggtg ttggnatgaa 60  
tcttttgggtg attcttacgg gaagatgggtg atgtagctcc atgtggagct tgtatgccat 120  
tgatctttctt catcaatgga gtcctttgct ccttaaagca taatgacatc ggaatggatt 180  
tggacaatg atgacgggag acacctcttc atggagaaga tgaatcaaga agaaacctac 240  
caccatagga aacctgggat aagagcttga aggcttgaga acatgaatgg aggg 294

<210> 16532  
<211> 373  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16532

ttctttgata tgnccgggtgt gtaaacagcg atatatacac ttattgngat tggcaataaa 60  
tagttactaa cattaactgg ttctcaaatt atatttataa actgggtaaa aatatgtctc 120  
acaatagctt atacatttgt ttgatgccag attattgggg cctggcaaaa acctgttatg 180  
gttattgtaa ctgaacttct cttatgtgga acattgcgca aatatctgcg gagtatcccg 240  
gccaatgtgc tgggatgttc gcgcaacaat tggatttgcct ctttgtattg cccgagcaat 300  
aggaatgctt acactctcat gggatcattc accgcgacct taaacctggt attgtatatg 360  
aatgtccaac ttg 373

<210> 16533  
<211> 399  
<212> DNA  
<213> Glycine max

<400> 16533  
tcaagaatta tggcctcacc aaactacttg gtctcttaag caaatctcat aaataaactt 60

cccatcttta atggagtggtg ttaccactac tggaaaaccc gcctgcaaat ctttatagag 120  
 gcaatagatt taaatatttg ggaagccata gaacaaggac cttatgttcc ctctataata 180  
 ggcggaagtg caacaataga aaaacctaga gcagattoga ctgaggaaga aagaagatta 240  
 gtataatata atttaaaggg caaaaatatt attacatctg ccttaggaat agatgaatac 300  
 tttagggttt caaatggtaa aactcttaaa gatatgtgaa ataaactaac agtataaact 360  
 gaaggacaaa caaatgttaa aagatctagg ataaacact 349

<210> 16534  
 <211> 349  
 <212> DNA  
 <213> Glycine max

<400> 16534  
 tttaaatcaa attccctctt tcttcctcct cagttatctg caagtactcg ggcgcgcttc 60  
 ggcggggccac aatgtttgaa gcactgagag tgatggttat gccatagcag aacttggcac 120  
 acagctcaaa tgcttccacc ccaccgggaa aatcacggag tgggactatt tggtgctgtg 180  
 gagaatcaga actctctgag cataaccttt gcaggcgcaa acatttggac aatagtggaa 240  
 actgaacaac atcatgaact tgtgtgacta agcaatataa agattgaaca agtcttgttc 300  
 aaaacacaaa atggactgag atatacaact tgaagagctt ctaattttc 349

<210> 16535  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<400> 16535  
 agtcttctat agaattgttc ttcttaattt ctctacaatt gcctcacctc tcaatgagct 60  
 ggtgaagaag aatgttggat ttacctgggg tgaaaaacaa gagcaagcct ttgctttgct 120  
 caaagaaaag cttactaagg caactgttct agctcttctt gacttttcta aaacttttga 180  
 gctaaaaatgt gatgcctctg gagtgggagt tggagctgta ttgttacaag gtgggcaccc 240  
 tattgcttat tttagtgaat aacttcatac tgcacacctc aactacacca cctatgataa 300  
 agagctttat gcttaataa gagccttcca aacttgugaa catraccttt gttecaagga 360  
 atttgcatt catagtgate atcaatc 387

<210> 16536  
 <211> 373  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16536

ttcttctaac taattcatgt attattacgt ttctaacata ttctattact attgttttgc 60  
 attttggcgt aggatatgat ggaatccctac cctccaaggg cattggatag aagactccaa 120  
 gaagattggg ccagagatgc aagagaaggc cctaagattc catgagccc tatggtagat 180  
 ttggggccca tggactaagt atgagccac ctatctttgt acatattaga ttacgatttc 240  
 attattttta ggccttgtat ctagagctcc ataattgtat tagggtaacc tagaaatgta 300  
 ttatttttca ggccttgtat ttatggccac ctagactagt ttttgtatta ngggtaagtt 360  
 tgaatttcac atg 373

<210> 16537  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16537

ggggtacctc ctccactaca tcaagaatca ccgagttgac tcttctatgt ggttgtctta 60  
 ctgggtttage cccatcctct aaatttatcc gatgcataca tgtggatggg gtaataccag 120  
 gaatgtccgc caggggtccag cctatagcct tcttatgctt ctgagaaact gataacaact 180  
 tctctctttg ctcatcagca agggaggcat atataattat tggaaaactt ttgctatcat 240  
 ccaagtaage atatttttaa ttgatggta gaggtctcaa ttctggtgtg ggcggtctga 300  
 taatgttaga aagagatggt ttctcagcct gtaacctata aagaaagta gaggtatgtg 360  
 tacttctga aacatggta gttctatctg actctagana atctatctca ag 412

<210> 16538  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<400> 16538



tttgcattgca ttcttttgag agactgctcc atattcccaac aagccatcac tgctcccatg 60  
 gbatgaacac ggacatgctg ctgpagttgt tctttaaagg cacagagcaa cagaacataa 120  
 tgggtctgca aaaaaaataa taabaaaact cataaaaaac aagctcttca cattaacatt 180  
 taagacatc aattagaat gagaacaaa acccttcaa agaaagaa cttaagga 240  
 ctatgtaat acaagtgtaa ataaaccca agatgcaaa ctatataaa tgccctaca 300  
 aagtaacaa aatgttatag tgattcagta ctccaatcat tatatgtaga ggggatatta 360  
 agtcagaatc aaatcttaac ttaatat 338

<110> 16539  
 <111> 360  
 <112> DNA  
 <113> Glycine max

<400> 16539  
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 ctaagttcac ctcttgaga tgagaagcta gagcttagct acacaccccc tataatagct 120  
 aagctcacc atattgcaaa aaaacatgaa aatacaaaaa aaaaagtcctc tattacaaag 180  
 actactcaa atgccccgaa aatacaaggc taaaacctta tactactaga atggccaaaa 240  
 tacaaggccc aaatgaagga aaaacctatt ctaatattta taaagataag cgggctcata 300  
 cttagcccat gggctcgaaa tctacctaa ggctcatgag aacctaggc ctttcccttg 360

<210> 16540  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<400> 16540  
 tctgaaagca ttatatgggt tgaagctagt tgtaatagct tggattgaga gactaagttc 60  
 attcttagtt cataatggtt tctctagagg aatagtagac actacactat ttgaaaagac 120  
 tctgaaagag gatctgctaa ttgtacagat cgatttatgt agataacatc atctttgggg 180  
 ctactaaaag aataatgtgc aaagaggttt atgagctgat gaaagaagaa ttgaaatga 240  
 gcatgatggg aaacctaaag ttctttatag gacttcaaat cttcaaaaaa tctcatgaca 300  
 tttttatcca tcaagagaaa ttcaccaagg accattcaaa gaggttcaa atggatgaag 360

ctaaaccaat agctacccct atgcatccat ctactgtcat t

401

<210> 16541  
<211> 325  
<212> DNA  
<213> Glycine max

<400> 16541

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ataactctct gtttgcttcc gtacatctga gggatctaca tggtaaaaaa ctgggaaaac 120  
aagttgttcc atctcaactga tcttggactg ctccaggatc ttaacaagtt catcaaggca 180  
ccatgtggag gatgcgtagt tcttagaaaa cacaatgatt aaaatcttag attcttcaat 240  
ggccttggat agagaaggta aaataacatt cccacccggc aggtccctat catcaaagaa 300  
aattttcacc ccttttcogg acaac 325

<210> 16542  
<211> 390  
<212> DNA  
<213> Glycine max

<400> 16542

ctgagatcca tagatcta at gcaaggtata tgtttcatag aagggatttc gttgcttgtg 60  
ttgggttgatt ccagagccat ctattccttt atatcctgtg tgtaagtaga aaaacttaag 120  
cttttctgtg tcttctttta ataaagatct agtgggtggag acccctacta gtggctatgt 180  
gataacttct tatgtgtgtt tgaaaagtcc tgcggagatg tctaggagaa cattcttgat 240  
tgatttgatt tgtttgcctt tgaaccagat tgatgttatt cttgggtgtgg actggatata 300  
ttccaaccat gtcttggtta actgtattga taaaagagtg gtgttcgatg attctgtata 360  
cgagtaagat atgaagttga tctctgccaa 390

<210> 16543  
<211> 390  
<212> DNA  
<213> Glycine max

<400> 16543

ttcttggtaa aacctctgca ttgttgagct tctgcagctt actaacagaa gttgctgccc 60

tgattttacc aacatcattt tctgaaaaca caaagctacc ggatatatcc catagctcca 120  
 cagtcacctc atcatgcaag gtcacgaact tgacaccagt aagaatgaga ttcttcacag 180  
 cagacaggaa gtaaacctta ttagaattca aaaacatgat ttaaaattat agagttagca 240  
 ctatcatctt taagcttga acctaaatct cacaaccctc aaacaaaaaa tcaagtcaca 300  
 cagaaatgat aaactatata ccttaagtta caaaaaaaa ttaacactgt caactggtaa 360  
 tcaaggttta aaaaaaaaaa tctgcaacat 390

<210> 16544  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16544

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 acgagagtaa aatatgtttt cttgttttat atgtaaatga tatttttactt gcagccaatg 180  
 atcgggggttt gctacatgag gtgaaacaat ttctctctaa gaattttgac atgatgggta 240  
 tgggtgatgc attgtatgtc attgggtattt agattcatag agatagacct caagggtattt 300  
 taggttcctc ataggaaacc tatattaaca aaattttaga gagattgcag atgaaagatt 360  
 gttcactaag tctcgtctcc attgtgaagg gtgatagggt taatcagaac caataccca 419

<210> 16545  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16545

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 tcacgtgctc atgcaacaat tgttagccat ggetatgga gacatcttgc caaacaaaagt 120  
 caggttaacg ataacctggc tgtgtttttt cttccatgct atatgtagca aagtcattga 180  
 tccagtaacg ttgatgagt tggaaaatga agccacaatt atactggccc tgttggagat 240  
 gtattttccc cctgctttct ttgacatcat gattcacttg attgtgcctc tggtcagaga 300

aatcacatgt tgtgggtcctg tntatctacg gtggatgtac ccgggttgagc gatacatgaa 360  
gatcttacta gggatatacag agaattctata tcgtacagaa gcactcta 407

<210> 16546  
<211> 391  
<212> DNA  
<213> Glycine max

<400> 16546

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catttgccttc caaagtttca tggccttgca ggtgaacacc cgcacaaaca tttgaaagaa 120  
ttccacattg tctgtctcac catgaaaccc ccagatgtcc aagaggatca catatttctg 180  
aaggcttttc ctccattcatt agagggagtg gccaaaggact ggtgtgatta ccttgctcca 240  
aggtccatca ctagctggga tgaccttacy agagtattct tagagaaatt ttccctgct 300  
tccatgacca cagccatcag gtaagatatt tcatgtatta gacaactcaa tggagagagc 360  
ctgtatgagt actgcgagag a 381

<210> 16547  
<211> 308  
<212> DNA  
<213> Glycine max

<400> 16547

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atgctcgata gatgatgaac agagctttct tgccctctctc tcttgaatcc ttaaaagtac 120  
ttctttgggtg cttggaatat tgaagtctca tgttgogget ccttatagcc tttttcaacc 180  
atttccacac cattatgtgc tccaagacgg gcttccattt tgatgctcca attgtcatac 240  
gtgccccctt atacaagtgg aacttggaag gatgacgtcc atttcttaca ttactctaga 300  
ggaatttc 308

<210> 16548  
<211> 384  
<212> DNA  
<213> Glycine max

<400> 16548

agcttctaaa ctttatacaa gaatgaagct ctgataccac ttgttagaca agtgggctca 60  
 gatattctaa gaaggggggg ttgaattaag atattccaaa ctacthaccc aattaaaaat 120  
 ctatttcact ttttattcaa gttataaaat cctttaacaa tgaacttctt aaatattaat 180  
 ttaataaaaa aaattttgaa tatgaatata taagaatata aaacaaagga atttaagaga 240  
 agagaaagtg caaactcaga tctatactgg ttgggcacaa ccttaatga attgagcact 300  
 caaataattc cttaatgaat tgcaattgaa ttggcgaagg aattcttaag aggataatat 360  
 gattttgctc ttgatagga caaa 384

<210> 16549  
 <211> 373  
 <212> DNA  
 <213> Glycine max

<400> 16549  
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 atatattatc ttttttgcac tgtgaagcac gcaccgagct tctgttttca atttcgagca 120  
 ttgtgatgca ttacgtgact aaatagaaca ttcaagtaaa atgctattgc cgtttgcatt 180  
 tgcctacaagc ttctgagtta aaagttattg cagtttgcac ttgctacaag cttccgcttt 240  
 caactacgag cgtctcgata tattactgga ctcaatcgat catcagagca aaaagttatt 300  
 ctggttagaa tttgttcagt gcttccgttt tcaatttgga gcgtatcgat atattacggg 360  
 actcaatcgg aca 373

<210> 16550  
 <211> 375  
 <212> DNA  
 <213> Glycine max

<400> 16550  
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 ctcaattagc tctgttgcct ctttcggggg cttaagtttt atctttcccc ctgtacaagc 120  
 atctaatagt tgcctgggtt gttgtctcaa cccatataaa aacataatca attggatggg 180  
 cttaaaaaaa ccagagatgg gaggttttct taacatgcct ctgaattctt ccaatgcctc 240  
 actcaagat tcatcagaa actgatgaaa tgaaaaaatt gcagcttata ctctacaga 300

cttggactct gggaagaatt tctttaggaa ctcttcaaca acctcttctt acgttttcag 360  
actgataccc ttaca 375

<210> 16551  
<211> 331  
<212> DNA  
<213> Glycine max

<400> 16551  
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catatcttga taataatttg agaattacat atgcgcctaga ctttgaaata ttgtatttat 120  
tagggtacgc tctctgatgg acaagaaatt gctattaaaa gattgtttat caattctaac 180  
caaggagata cataatttaa gactgaaatt tcgctaacag gaaagcttta gcaccgaaac 240  
ttaattacac taactggctt ctgctttgct aaaagagaaa gatatttgat tatgagtttg 300  
ttcccaataa aaacctagat ttattatatt t 331

<210> 16552  
<211> 384  
<212> DNA  
<213> Glycine max

<400> 16552  
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ctatacgaga catcttgcca aacaaagtca ggtagcgat aactcgctg tgctttttct 120  
tccatgctat atgtaggaaa gtcattgac taatcaagtt tgatgagttg gaaaatgagg 180  
ccgcaattat actgtgccag ttggagatgt attttcccc tgctatcttt gacatcatga 240  
ttcacttgat tgtgcatctg gtcagagaaa tcaaatattg tggctctgtt tatctacggt 300  
ggatgtaccc gggtgagcga tacatgaaga tcttaaaagg gtatacaaag aatctatctc 360  
gtccagaagc atctattggt gaga 384

<210> 16553  
<211> 425  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 16553

tattatccaa ggttcatttt ggtggtgaaa ctctctcttc catgggttat tccctagtgg 60  
atgggagctc ctctacctc ttctcttttg tcttccgctg catctggaaa atcaccatta 120  
agggtctca ttgaagctca aattatcaga tccatagaa gctccacaag caagcttcca 180  
ttgagatcgc aatttttaatt gctctttttt aattacctgg ttgaagctca tctatcaat 240  
gtagatctc aattctttct gcaaccaagt aattatcaga tctctcttct cattttttat 300  
ctaggtgagg cgggtttttct tcaggattac ctggacagaa ctcaaccatt ggtgttcgga 360  
gtatggataa atgattccag ttngcaaaaag cttggttacc tcttcttcca ctacatcaag 420  
aatca 485

<210> 16554

<211> 377

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16554

agcttacaac aatttgtaaa ggtgttcaat gagatatttg gacaagagta cttgagaaga 60  
cccaacaaca atgacatcaa tgcctacta caaattggag atggacaagg gtttccaggt 120  
atgttaggtt ttattgattg catacattgg gagtggaaaa attttctgtc agacccta 180  
tttgtccaag gacaatcatt catggatatt ttgattctcg ctagccaaat tgagctgttt 240  
gacaccagtt accgcgcaag acgaaagatc attcgatgtt ttgggtcaagg gtgtgaaaga 300  
tactaaaagg gaggggcaaa aggtcttttt canggttatt tctagacctt ggctcgccca 360  
ggttagcctt tggtctt 377

<210> 16555

<211> 334

<212> DNA

<213> Glycine max

<400> 16555

agcttataga agaataagaa aggggcaaac agaagactca ccatctgtc actgaaaaca 60  
ctctcttcca tcaaacgaag aggtttgatt ccaacagatg actctcttct ctgcataacc 120  
ctgttgacaa acacatagtt ctgaaaagtg taggcatacc gttcgggctc ggcataaaaa 180

gpatccaaaa tgttaaagtg atcagggtcca acatcctgcc acttgctaata gggttcatga 240  
 accacctcaa caagatcacg caattcgatc gtttcattcg ctattctctg gaggaaggta 300  
 gtcttgccaa cgttaatggt accctcaaca cagaatgtta agcgtctctt ctgaacagag 360  
 caagaggaaat ttttttaa tttttt 371

<210> 16556  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16556

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 aacttgtaata ggtgtgttga atgtgctctg ggaaatttct ggcagaacat ctgtgattga 120  
 ttttaattgt ttgcctttta gccaaattga tgttattcta ggtatgaact ggttatcttc 180  
 caacatgttc ttgttaaact gttttaataa aactgtgggt ttgatgggt ctggagtaag 240  
 taagyatatg atatttatct ctaccaacca agttgtgaca tttttaaaag aagattctca 300  
 agtgtacatg atcttgtcta acctagaaat aaagaccaag gtttccatgt gtgaccttcc 360  
 tgttgyttaga gatttctctg aagtgttccc tgaggatata tctggtct 408

<210> 16557  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<400> 16557

taaacattca attgcgagag tctcgttata ttacggtact caatcagaca tccagtaaa 60  
 aagtrattgt cgtatgaatt ggcttacagc atagacatcc aactttgagc ctctcagatc 120  
 attatgggac tcaatcagac atccagagtaa aaagttattg tgccttgaat ttgctcagag 180  
 gtccaaaatt caatttcagc cgtatcgata tatttcggga ctcaatcaga catccagata 240  
 aaaagttatt gctcttcagc ttgctcaga gggtcaacat tcaatttcga gcttccagat 300  
 atttacgcca ctgaatcga catccagga aaaagctatt gtcgtcagaa tatctctga 360  
 gcttcaacat tatattcga gcttccatc ttttttcggg acatcagctg acatccc 417



<210> 16558  
 <211> 332  
 <212> DNA  
 <213> Glycine max  
  
 <400> 16558  
  
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 atttaggaat gattacatat ctgtattac gaaatgatag aattttttac gaacatccaa 120  
 taattgcatt gactaataaa taaatattta actataacta attattatat ataaaagaaa 180  
 taggatgttt agatgtacat tgtattatat ctattttatc tttataacta tattcataac 240  
 ttatttttg atttatatta ttacctgata taatcaccog ctaactaatt attatttttc 300  
 attgaataaa taaacatgaa taaacagtta cactgtcatg tttattccta aaatgttata 360  
 ataattatgtc attacctcaa ca 382

<210> 16559  
 <211> 423  
 <212> DNA  
 <213> Glycine max  
  
 <400> 16559  
  
 tagcccatca tcaatattga tttcaagaaa caaaaaagca agtagatata tcagtgaact 60  
 gagccagacc aaggaaaaat acatcaaaga aaataaataa tctagtatag ctaattttat 120  
 aatcagataa agcatctgag acctgctgcc atgtggtatc aacaggaggc tgccgccgag 180  
 catcgccagc atcaaaatcc agtacaccat aatccctcaa ccgaatctac acagcaataa 240  
 ctaaaatcag aagtcttttt gaggattaaa tgcattggcat tatctataag acacattttt 300  
 caaattgaga caaaccgcga ggaaggcacg gattcttttc aaattcccaa caccaccacc 360  
 aagagcagcc taccattaga taaaaaagca agcagaaatt aagtgttgat aacaaataca 420  
 aat 423

<210> 16560  
 <211> 361  
 <212> DNA  
 <213> Glycine max  
  
 <400> 16560

agcttctgtt gttcaatttc gagcgtctca atatattatt ggcttgaatt agacatccga 60  
 atcaaaaagt atgggttggtt atattatcca tgtgcttcaa tgttcaattt ttagecatctt 120  
 gatataattat gtagcttaat cgggcattctg agtgaaaagt tatgtcatat gagtttagcgg 180  
 agaacttcgt tgttcgattt ggagcatctt gacatattat ttgcttgaat tggacattcag 240  
 agtcaaaaagt tatggcagtt taaacttttc atgtgttttc atgatttaatt ttgaagcttct 300  
 tttatatatta tgcacctgaa tgggactact gagcgaatag ttatgcacata tgagatagct 360  
 g 361

<310> 16561  
 <311> 337  
 <312> DNA  
 <313> Glycine max

<400> 16561  
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 gccacactat tatgatctgg agaactatgc atagtgtatt ggacaacaat cccatgtttct 120  
 tgaagaaatt tgcacaaatga acctgggtgt tgtccatcct ctgtgtatct accataatac 180  
 tccccacctc tatctgatct cactgatctta atttgttttc cacattgtat ctcaacttca 240  
 gctttaaaaa cttaaaaggc atctaaagct tcattcttag aatgaagtaa gtatagatac 300  
 atatatcgtg aataatcctc tatagaggtt atgaagtatt tgggacaata tgcatttcag 360  
 tctggacaac atatgtcttg tatgtat 387

<310> 16562  
 <311> 421  
 <312> DNA  
 <313> Glycine max

<400> 16562  
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 aacaatttat atctctccag caacaggtac aatctcgggt ggaggaatca tcttaacctt 120  
 agatggtcga atctctcaca acagcagcaa caacaacaac agccttattt tcagaatgct 180  
 gctgggtcaa gaaaccata cttctctcca ccaatccaac acaacaacaa gcaacagccc 240  
 cagaacaac aaacagttca ggtctctcgg caaccttccc tgaagaact tgtgagacaa 300

atgactatgc aaaacatgca gtttcaacaa gagactagag cctccattca gagcttaact 360  
 actcagatgg gacaattggc tacacagtta aatcaacaac agtcccagaa ttatgacaga 420  
 t 421

<310> 16563  
 <311> 414  
 <312> DNA  
 <313> Glycine max

<400> 16563  
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 catatttata agagaccaac caaacacaaa gcaaccacag cttaaaacac ccgtaacaaa 120  
 tcttagaaca ttggaatttg caaaggcggg ccatgaccac tttattctaa aacttcaaac 180  
 acaaacacata cttattattt attgatacat gtattacagc tatctctgct tgaagggttat 240  
 gcatgttgat ctcacttgca gctgcatggg tcgcaagtgc agtttgatcc acagttgcag 300  
 ccacggttct cagctgcaac acccatttca gcaccctcga attgggcctt caccggccca 360  
 acacccaaaa ctagagtctc atttgtgac ttctcaacgt agtcaaaaga gtac 414

<310> 16564  
 <311> 375  
 <312> DNA  
 <313> Glycine max

<400> 16564  
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 tgtacttttt ctatctaatt tgcactctgc aaaatcagaa tatgaaaaac ctgttatggt 120  
 taaggaggta cctttaggat accacataag caaacactta gcatgatata caatctactt 180  
 gtaggttagt agagaagtga ttcaatcata cctctgtatc ttgattcato cactaattta 240  
 cctttctcat caaagtcaag gtaggttgat gtagacatag gagtagatgc ttctttgcat 300  
 ttttctatc caaatttctt tatcggtttt atgcaatatt tggtttgact gaggaagggt 360  
 ccatgtttca attgc 375

<310> 16565  
 <311> 386  
 <312> DNA

<213> Glycine max

<400> 16565

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atttaactgt ttgtgggttt ggcgggccacg atcaacaaag tacttggggc acctatgta 120  
aacaatggc cttagttatc ttaagaaggg ggggttgaat taagatatc caaactattt 180  
cctctaatta aaaactctat tcaactttta ctcaagttat gaattccttt aatgacaatc 240  
ttcttaaata ttaattcaaa tgaaacaatt tgaatatgaa tataaagaaa taataaataa 300  
aggagattaa gggaagagaa aatgcaaact cagttttata ctggttgggc cacacccttg 360  
tgctacgtc cagtcctcaa gcaacc 386

<210> 16566

<211> 424

<212> DNA

<213> Glycine max

<400> 16566

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caagaatttg aattaatgtg tgatgctagt gactatgcgg tagagtagta ttaggacaaa 120  
agagaaatgg aagatttcat gctatctact atgccaacaa agtgctaaat ggagcccaaa 180  
ccaactacac aacaacggag aagaagatgc tagcagtgtt tatgcccttg aaaatttttg 240  
atcatatctt gtaggatcaa agatcattgt gcaaactaac catttagcta taaaatatct 300  
actcgctaaa gcggattcga agccaagatt aattagatgg gtcttgctac tacaagagtt 360  
tagtttagag atttaagata aaaatgggtg tgacaaccta gtagtgtatc ttttatcgag 420  
acta 484

<210> 16567

<211> 416

<212> DNA

<213> Glycine max

<400> 16567

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gggggggtga attaattatg aacgtgtctt agctaattaa agaattatcc ttcttaatat 120

tactagattc aatgaagctt tacaactaag ttatgagaaa gttaaagaaca gaaacaataa 180  
 cttagacaaa agtaaagctag aaataaaaaag tgcacagcgg aaaataaaga gtgtaggga 240  
 gaagaagaca aacacaagat ttatactggt tcggccacaa cccgtgcta caccagctc 300  
 ccaagcaacc accgattctt gagatttcca ataaccctgt taaatccttt acaagcaag 360  
 atcgcaacg gatgtatctt cccctgttct ctttgaacaa ccaagtggat gta 420

<210> 16568  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<400> 16568  
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 agaactctcc aattgggtct cctacaagtt gtaattcaca accacttctc ctcaccgtcc 120  
 ttccagccct tgcctggcatg ttcaccccca atttgatact cgcaccaactg ctaacacaaa 180  
 ttgatagat gtaatatcca acaagacatg acttaagtaa taatggctcag cggagctcg 240  
 ggaggaggtt ttaagataaa ttcgtagaag caaggtacaa aatatacaac catattaaga 300  
 aattaaatat gccttacatc atgttgaaat attaatTTTT ccaaattcaa ttgaacttaa 360  
 ttatgccaat gtcaagatga aaacaaaatg tgcattatat tggcaacctc tataaagaga 420  
 aag 483

<210> 16569  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<400> 16569  
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 aacaattatg acctctccag caacagatac aacctggat ggaggaaatca cctaacctc 120  
 agatggacca gccctcagca acaacaacag cagcctgctc ctctcttcca aaatgctggt 180  
 ggcttaagca gaccatcatc tctctacca atccaagaac aacaacaacc ccagaaacag 240  
 ccaacagtgg aggccctctc acaaccttcc ctccaagaac ttgtgaagca aatgactatg 300  
 cagaacatgc agtttcagca agagaccaga gccctcatc agagctaac caatcagatg 360

ggacaattgg ctaccaatt gaatcaacaa cagteccaga attctgacaa gcttctctct 420

<210> 16570  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<400> 16570

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 ggaattggat agcagaactcc aagaagattg ggccaaagat gcaagagaag gccttaggat 120  
 tctcatgagc ctttagggtag attttgggccc catgggctaa gtatgagccc acctatcttt 180  
 ctacatatta gattaaggtt tcattaattt ggggccttgt atttaaggct ccataatata 240  
 ggtagggtag cctagaaatg taggatcttt cagcccttgt attttagggt acctagacta 300  
 gtttttgtat tacgggtagt tttgtaattt cacatgcatt aagtgaatat ttgatgtgtg 360  
 cyttagagaaa taaatctaab tgaattggga gaagcccaat ccaattataa tttagagggg 420  
 gaggtg 426

<210> 16571  
 <211> 333  
 <212> DNA  
 <213> Glycine max

<400> 16571

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 cggacttccg tctgacaagt tatgaccata tgaatttctc gagagcttct gttgttcaat 180  
 ttccagcgtc tagatatagt atgcgcctga atcggactta cgtgtgacaa gttttgacca 240  
 tttgaatttc tgcgagcag tctgtggttca atttacacct tctcgatata ttatgcgcct 300  
 aaattggact tccgtttgaa aagttatgac cat 333

<210> 16572  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<400> 16572

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 ctccgtgtgtg ataagttatg accatttgaa tttctcgaga gcttccgttg ttcaatttca 180  
 agcttttga tatattatgc acctgaatcg gacttccgtg tgataagta tgatcatttg 240  
 aattctctga gagcttccgt tgttcaattt caagcttctc gatatattat ggcctgaat 300  
 cgaacttcca ttgaaagt tatgaccata tgaatttata gagaacttc gtatctcaat 360  
 ttcgacccgc tccatatatt atgcgcacata atcggaattc cgtgtgacaa gtcatg 416

<410> 16573  
 <411> 330  
 <412> DNA  
 <413> Glycine max

<400> 16573  
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 aagctcaccc ccctgacaaa aaaaagatga aaatacaaaa aaaaaagtc ttactacaaa 180  
 gactactcaa aatgccccga aatacaaggc taaaacctta tactactaga atggccaaaa 240  
 tacaaggccc aaacgaagga aaaacctatt ctaatattta caaagataag cgggctcata 300  
 cttagcccat gggctcaaaa tataccctaa ggctcatgag aacctaggg ccttcccttg 360  
 gatctctage ccaatctact tggagtcttc 390

<210> 16574  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<400> 16574  
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 aaagttatga ccatttgaat atctcgagag ctccgttgtt tcaatttcaa ggcctcttat 120  
 atgtgatgcy ccttaatcgg acttccgagt gaaaagtaat gaccatttga aattctcaag 180  
 agcttccgct gtccaatttc tggcgtctcc atatatatg tgcctgaate cgaactccga 240  
 ctgaaaaatt atgaccattt gaatatctcg agaaacttcc tgttcaattt ggcagcgtct 300

ctatatgtga tgcgctcgaa tcggacgtcc gagtgtaaaag taatgaccat ttgaatttct 360  
caggagetta cgtgtttcaa ttctgagcgt ctcgatatat tatacgccctg aatcggagct 420

<210> 16575  
<211> 350  
<212> DNA  
<213> Glycine max

<400> 16575  
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atattacggg actcaatcag acatccgagt aaaaagttat tgtcttttgg attggtctag 180  
agattcaaca ttcaatttcg agcgtctcgt tatatcacgg gactcaatca gatctccgag 240  
tcaaatgata ttgtccctcg aattggctca aagcttcaac attcaatttc gagcatctcg 300  
atatatgacg ggaactcaatc agacatccgg gtaaaaagat attgtcgttt 360

<210> 16576  
<211> 384  
<212> DNA  
<213> Glycine max

<400> 16576  
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ttatatttat tgtaatgaga atgggacaaa ttcaatgaat tattgtaaat tcattttaga 180  
atattttctt aataatcttc taacthatta aattaagaaa tattcattgt ttttatattt 240  
atcaatttaa taatatggaa taaatttaac gaattattgt acgagacaaa agcttgcaac 300  
ttttacctta gtgattcata attataatta ttaatgtgtt gataagaaag gtaggaatat 360  
aggtaaaaat gcaactacaag ataa 384

<210> 16577  
<211> 416  
<212> DNA  
<213> Glycine max

<225> unsure at all n locations  
<400> 16577



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 cctgagacac gaatttgcta agagttttct agaacaaaaa ggtcttatcc tcttaaaaag 180  
 caaaatcgtt ctatctcttt acadaatctt tggccaaaaa acttctgatt caataatgaa 240  
 tctttgggtt gctcaaatgt ttttaataat ctctttcaag agagattact tcttctcttc 300  
 ctctttatct tgaaaaaagg ttaagagacg gagggctctt tgttgtaaag aaatttgaac 360  
 aaaaaggaag gattgtctct gtgtgggttc gatcttgtaa tanggtttta caagat 426

<210> 16578  
 <211> 351  
 <212> DNA  
 <213> Glycine max  
 <400> 16578

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 tttttactcg gatgtctgat tgagttcttt aatataacga gacgctcgaa attgattgtt 180  
 gaaactctga gcaaatccaa acgacaataa cttttttctc ggatgtctga ttgagtcctg 240  
 tcatatctcg agacgctcga aattgaatgt tgaagctctg agccaattca aacgacaata 300  
 actttttact cggatgtctg attgagtcct gtcatatata gagaogctcg a 351

<210> 16579  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16579

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 atgatgcaag accaaggaaa gatctcacct ccgaaaactgt tgtagggtct ggccaagtct 180  
 tgatagcctc cacttttgtt tgatcaacgg atactccatc ttttagacac acatatccaa 240  
 gaaacaccac actttcaacc aagaaatcac acttttccct ctctccatag agtttttgtg 300

ctcttagggg ctcaaatatt tgtttcacat gagtgaatg ctctctatata gatttgetat 360  
acaccaatat gtcacaaaga taaacaacaa caaacttacc caca 404

<J10> 16580  
<J11> 416  
<J12> DNA  
<J13> Glycine max

<J14> 16580

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atagagagcg tcaaaattta aaaaagaaaac tttagagcaaa tcaaacgac aataacattt 120  
tacttcgatg tcaattgaa tccataata tattgagacg ctcgaaattt aaaaacagaag 180  
ctctaagcaa attcaaacga caataacatt ttacttcgat gtgctattga gtcccgtaat 240  
atagagagac actcaaaatt taaaacagaa gtcataagaa aattctaacg acataaacat 300  
ttacttcggt tgcctcgattg agtctctgaa aatctcgaga caactcaaat tgaaaacaga 360  
agtcctcgaga aaattcaaag gacattaact ttacttcggt atgtcttatg gagtcc 416

<J10> 16581  
<J11> 454  
<J12> DNA  
<J13> Glycine max

<J23> unsure at all n locations  
<J40> 16581

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cccattttta atggagaggg ttaccactac tggaaaatcc gaatgcacat ttccattgag 120  
gcaatagatt taaacatttg ggaagccata gaagtgggac cttatgtacc caccatgggtg 180  
gctggaaata caacaataga gaagccatga gaagagtggg ctgaagaaga aagaagatta 240  
gtgcagtata atttaaaggc taaaaaacac attacctctg ccttaggaat ggatgaatat 300  
tttaagggtg caaattgtaa gagtgtctag gatatgtggg acactctact aggtacacat 360  
gacggacaaa atgatgtcaa aagatctacg ataaataact taaactcatga gtatngaatt 420  
attangatga agacaaatga gagtatcaa gata 484

<J10> 16582  
<J11> 449

<212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 16582  
  
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 ttttcttttg ttttcttttca acttgctgagc ccaaaaagtg aaaaatttca gaaatttctc 120  
 ttcatgaaag gaaatttgcg gctggctcat taaattcttc gtttctgcca atctctataa 180  
 ttactctctt aaggaagtta actaacaatt cagagaccaa ttogaagcct oggaatatgt 240  
 ctctttattgc ccaagacta tcatgagtc cctgtctcac cataactgaa tcatcagtgt 300  
 atttgagaat ttagtatttg aactcttctc caactttcat acctttgaat agtctttctt 360  
 ccaactgtgt atgaacggcc cgttagacc ttgagcagct atcaagaaca naaatggaga 420  
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<210> 16583  
 <211> 405  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 16583  
  
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 aaaagcttcg aatagtgtga tgtttccatg gctagccttt ggtcacatga tcccaaacct 120  
 ttgagctggcc aaactcattg ctcaaaaggg tcacacagtg agtttcgtat ccaccaaga 180  
 aacatagagc gtctttccaaa accgtcacta aacacacttg atatcaattt cgtgaacctt 240  
 ccactgcta aagtcacaaa ctttcagaa aacgcagaag ccaacactga catccctac 300  
 gacgtctttg aacacctcan agaagcctac gacgtctctc aagaacgct gaaacgttnt 360  
 ctogaatctt ccnaccga ttgagtcttc taagacttgc ctccc 405

<210> 16584  
 <211> 409  
 <212> DNA  
 <213> Glycine max  
  
 <400> 16584  
  
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ttgggataaa ggtagtgttg ccatgttttc aaagcccgta ctaaggcata caactcctta 120  
 tcataagttg aatagtttaag gytaggacca ctttaactttt cactaaaata agcaattgga 180  
 tgggtttctt gcatcaacac agccccaato ccaacatttg aagcatcaca ctcaatttca 240  
 aatgatcttt gaaagtcttg caatgtaagt atgggggcat tagttagttg ttgtttaaga 300  
 aatggacag ctctttcttg tttttcttca ctttgaaac caactatctt ctggagcaat 360  
 ttaattgagag gtgtgtccaa ttgtgtaaaa tctttcaca atgtcttat 420

<210> 16535  
 <211> 460  
 <212> DNA  
 <213> Glycine max

<400> 16535  
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 attgcgatt caggtgcata acatctcgag acgctcaaaa ttgaacaaca gaagctctcg 120  
 agaaattcaa atggtcataa gttttcacat ggatctccga ttctgtgtta taatatatcg 180  
 agaaggtcga aattgaacaa cgactctaga aattcaaatg gtcataactt ttcactcgg 240  
 ttttcgattc aggggcataa catatcgaga cactcggaat tgaacaatgg aagctctcga 300  
 gaaatacaaa ttgtcataac ttctcactcg gatggccgat taaggcgcat cacatatcga 360  
 gacgctcaaa attgaacaac ggaagctctc gagaaattca aatggtcata actttttaact 420  
 cagatgtccg attcggggat aaaatatatc gagacgctcg 480

<210> 16536  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<400> 16536  
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 atgtgtgttt aagaagatcg aggcagtatg ataccaaggc agtgcattat ggcttcacca 180  
 actaatcttc tctctagcga gctgacaaga agattgttct caaaccgta tctcttcaag 240  
 aggtttgtga ggtacagata aaaatcaaac atatgatgaa dagtgagaca ctcgagagga 300

aaaagagtga gacacttgag aaggataagt gaggaagag aaagagtga acacttgaga 360  
 gggaaaagag agaatacata gagagtgaac cact 394

<210> 16580  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<400> 16587

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 ggaaggggtt tctgctggct agttactcaa ggaattgaa attcaagctc caaaaactaa 180  
 cccaaggcaa caagggggtt aagaagtatt tcaaggaaat ggatgtgctc atgattcaag 240  
 caaagattga agaagatgat aaggtaacta tggctcgatt tcttaatggt ttgactaatg 300  
 atatccgtga tattgttgag ctgcaggagt ttgttgaaat ggatgatttg ttccacaaag 360  
 caatccaagt agagcaacaa ttaaaaagga agggagtggc taagaggagt t 411

<210> 16583  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<400> 16588

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 gttggatatg actcagcca tatctgcaa acacctatca cactaaattt tggcaaaaac 180  
 tcaaccttcg acatgacata taaattctta gccacaataa aatattttaa atggatactg 240  
 tctatttaga ggccactata acaaaagtta agagttctta tctcttggtt tagtaatgta 300  
 tcttcttcgc aagcagaagt gaagataata tattaccgtg gagcctgcat agagaggggc 360  
 cattaaacca ttgaaaaac catgaacatg tatattatat atgtaagga ctgacgtaat 420  
 aaagatatcc ccaatgtttt aaa 443

<210> 16589  
 <211> 411

<312> DNA  
 <313> Glycine max  
  
 <223> unsure at all n locations  
 <400> 16589  
  
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 ttttttgat gaaatgctt gttgaaagct ttcttgatga tttacttcat actacatgta 180  
 tttttttttt catatatgat caaatgaaat aaaatagtta aaaaaaatgc acatataaag 240  
 tttatgtatgt gtaaattttt atgtaactca ttttattaat ttcaaaaatt aaattcttat 300  
 tttttatttt cagttgataa ataattcttat tttatactaa tgactttaaatt aacactttta 360  
 ttttaaaaga gctntaattt aattgggtta acaggtgctt taattattat a 411

<310> 16590  
 <311> 409  
 <312> DNA  
 <313> Glycine max  
  
 <223> unsure at all n locations  
 <400> 16590  
  
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 aatagacctc caatctttta tggagagggt taccactact ggaaaaccgc aatgcaaatt 120  
 tttattgagg caatagatct aaatatttgg gaagccatag aaataggggc ttatataccc 180  
 actacagtag aaagagttac aatagatggt agttcatcaa gtgaaaacat aactatagaa 240  
 aaacctagag atagatgggc tgaagaggat agaaaacgag tacaatacaa cttanaagcc 300  
 aaaaacataa taacatctgc cctgcgaatg gatgaatatt tcagggtttc aaattgtaag 360  
 autgctaagg aaatgtggga cactcttcga ttaacacatg aaggaactac agatgataaa 420  
 aatcttagga tatatgcact aactcatgag tatgaatta 489

<210> 16591  
 <211> 414  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 16591

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 ctatgcaggt tgaagacctt ggaggaaaga ggtatgccta tggtyttgtg gatgatttct 120  
 ccagatttac ctgngtcaac tttatcagag agaaatcaga aacctttgaa gtattcaaaag 180  
 agttgagttc aagactcaaa aaagaaaaag actggtgcat caagagaatc aggagtgacc 240  
 ttgacaaaga atttcaaaac atgaggttca ttttaattct cactatgaa tttatcactc 300  
 tgaattctc tggagccatt acatcaaaac agaatgggat agttgagagg aaaaacagga 360  
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<210> 16592  
 <211> 450  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16592

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 tcatagagag atcgagatat cttaatgatg aaagttttcc aaatgatcta ggaagagcac 180  
 caccaattga gttgttgga aaaagtaacg tgtcaatatt tttaaatgcc ccaatatgat 240  
 ctgtcagatt gcttgaaggt cgtgaactct gaactgcaag tcttgtgagt ccattgggaaa 300  
 tacaaggagc aagaatttct aaaagtcat taacctgttg gttgagtttg agatatgata 360  
 aatctatcac ccttaagttg cagagattac ccanagaagt tggaatgttt ccttcaagtt 420  
 gattatgtga caaatcaagt tcaacaagag 450

<210> 16593  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16593

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 accgattgat aaatgagaaa gagagcttcc ttgtctctct tcttgactc ctccaacgac 120  
 tctttacac ctgtgcttag caaggttcca tcttgctctt caaagtcatc ctctacgata 180

tcccacacat cttgagctcc tagtagcgcc ttcattctga tactccaatt atcatagttg 240  
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 tgaagctctg ataccactnt gttggaaata aggcctntta tgtttaggaa aagtgtttag 360  
 gaataattga gacnttgaat agaaacttga taggaaggag aattcttta 420

<210> 16594  
 <211> 462  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16594

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 cttacggcgcg aaaagaaaaa atcacctgat ggtctctctg ttgctagcag gagtctctac 180  
 actcaaggta ggcctactgg taagaaaaac agttcttctg taaatatgat gttgcattcc 240  
 ctgaatacaa tgggttggct gggttgaata ttttactaca cctattact ttggtttata 300  
 cttttgaaat ttgaataatt aatataatcc tttttgttta gttctaatta tttgatattt 360  
 ttaatacata ataatagata ctgctagtaa actactaaga gtggagctct aagcgctaca 420  
 ttgatgtact actaaggggt ttattgagat tc 480

<210> 16595  
 <211> 463  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16595

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 taagattgat tgtttccctg gctagctgga gaaatttgaa actgttggct ctaaattgta 180  
 agtcagcctt tctaaatggg ccacttgatg aagaagtttt tgttggtaaa cctcctggct 240  
 tcatatgtaa aggtaaagaa caaaaggttt tgagactgaa aaaggccttg tatggcttga 300  
 aaaaacacc tagggcatgg aacaaaaaga ttgattcctt tctcactggg ttggacttcc 360



agaaatgctc agttgagcat ggtgtgtata tcanaacagt aagtgaaact aagattgtgg 420  
tjctataact agatgatgat gatttactca tcactgatag tag 483

<210> 16596  
<211> Gln  
<212> DNA  
<213> Glycine max

<238> unsure at all 3 locations  
<400> 16596

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acaaataatg taaggacata aatagctcac tagaaatgaa gcttccattt gaacttcatt 180  
tgaaatatat aatttgcctt taaatacaaa gaaatcaggt tttctcaaaa attaataaat 240  
aagttaaaat gaaaatgaca aaacaatctt gtccctctt aattttctt tctctcttct 300  
accttttcac taaatcatgt atttaattaa tataattaat tatgtaataa aaataaaggc 360  
atcttanaat aaaggtctag taataatcac tttagatgca cttctg 406

<210> 16597  
<211> 402  
<212> DNA  
<213> Glycine max

<400> 16597

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tggttctcta ttgggttctt aacctctctc tgcattctct ttacaaattc tgacctagat 180  
tctcttctct tatgtataaa agaagtgtcc agtgggaggg gaatgaggtc taacggtggt 240  
aggggattaa acctatagac aacctcaaaa ggggactgct tgggtggtct atgaaccccc 300  
ctgttgtagg caaattctac atgaggaaga tactcatccc aagaattatg gttgccttct 360  
agaagagccc ttataagggc ggataaagac ctattcacta cc 402

<210> 16598  
<211> 397  
<212> DNA  
<213> Glycine max

<400> 16598

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ttccaaatta tgggtcagcc aacagaacag gattgggtg ctgtcaagag aatccccgg 180  
tactaaagj gcacagcca ttctgggtg aaactggaa ccaattttc tacaagcac 240  
tactctgttc atgccttttg cgatgctgac tgggttcag acctgatga tcgaagctct 300  
acctctgggg ctgttgtgat cttacgccca aatcttgtct cttggtgac caaacagcaa 360  
ctgttgttg ccaggtccag tactgatga gactaca 397

<210> 16599

<211> 453

<212> DNA

<213> Glycine max

<400> 16599

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ccaacaattg caatgctctt tccatagacc cagacctaca aaagccatct aaaatggccg 180  
ataaaatcac caaattgggc gaacatccat gtagtctcat aaacttaagc acagagtagg 240  
cctctctaga tcgacctcg ttagagaatc cctcaactat tgcacatata gtaataagat 300  
caggacaaag gccattggaa ctcatctcac tggtaactt cagagccgtt tcaatgtcac 360  
ccttcttgca acacaactt ataaccagat tatacatgac agtgtcagcg tggaggttga 420  
aagtgtcttc catcttctc aacaccaca gag 453

<210> 16600

<211> 415

<212> DNA

<213> Glycine max

<400> 16600

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cttcaagatt aatacaagat tgtttcaaca aacaaagcct tgattcaaga tttcttcag 180

atcaagcett ggcacaaaat gttagagattt caagtcattc aaggcacatg taatogatta 240  
 ocaatacatg taatogatta ocaaggacac tgaagtgtg taatogatta cacatcatat 300  
 gtaatogatt accatagact ctgaacgttg ggaattcaaa ttttaaataga agagtcacaa 360  
 tggttcaaga taaacaattg tgttaatgat tacaclaatt ctgtaatcga ttacc 415

<210> 16601  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<225> unsure at all n locations  
 <400> 16601

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 tatggatgca tttaatgatt tgaacaccag attagtgtct gctccagtaa ttatagcacc 180  
 aaattggggg caagaatttg agctgatgtg tgatgcaagt gattatgaca tatgtgcagt 240  
 gcttggacaa aggaagggaa aaaattttta tcttatatac taagccaaca tgggtctaaa 300  
 tgatgcacaa gtgaactatt ctaccacaga aaaagaaatg ctggtaattg tttatgcact 360  
 tgtaaagttc atatcttctc tggtaggtct aagagttatc atctacactg atcacgcagc 420  
 tattacatat ttgctc 436

<210> 16602  
 <211> 338  
 <212> DNA  
 <213> Glycine max

<400> 16602

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 gaccgcttct caagtctctg taccacagaa tctgaggaag gccaccatcc ttgctatcca 180  
 gtaattcataa caggatccat ccagaataga gggctctgtaa actgatccac ctctctatcc 240  
 catgttccac agacaagatc tccctagatc tcactccacg ataccgagtg ccacccactca 300  
 taccaatcga aattatgata ccaaaagccac atgacgta 358

<210> 16603  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<220> 16603

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 tctttggaga ctagacatgt ggaggagtaa ctggtttctt gaggtgttca tatgtaacag 180  
 ttgtcttttg atctgtctgc cttcattatg atttcaactc tctaatcttg cagcaagcat 240  
 tctgaatttg tgacagttac attgagtact tcatgacaca actgaactga gctgatcaag 300  
 ctctcagtea gtccttttca cagcagtact ttgttcagac taggaagtcc ttcattggact 360  
 acctgtacca ttcacgtgat 390

<210> 16604  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16604

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 aaagcttact aaggcaccta ttctagctct tcttgacttt tctaaaactt ttgagctaga 180  
 atgtgatgac ctctggagtgg gactcggagc tgtattgtta caaggtggac acctattgc 240  
 ttatcttact gaaaaacttt atagtgcac cctcaactac cccacctatg ataaagagct 300  
 ctatgcctta ataagagctc tccaaaacttg ggaacattac ctgtgttcca aggaatttgt 360  
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 catgc 425

<210> 16605  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<400> 16605

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catcaaggac aaaaaatggt ctaaaaatgt ggtagcagac caacctatcca gatttggtgaa 120  
tgaagatgtc acttcaaaaag aggttgaaat aagagataaa tttcttgatg aatctttggt 180  
tctgattgta gtagagactt ggttagtga tatggctaatt taagggtg gajttgta 240  
acaaaaagac cttaattggc agcagagaaa gagattcttc tatgatgcaac acttattcaa 300  
agtaagtgtg gataatcttc ttogaagatg tctgacaagt gaggaggcgg agggcatatt 360  
gtggcattgt caaatttcac catgtggcgg gcattatggc 420

<210> 16606  
<211> 445  
<212> DNA  
<213> Glycine max

<400> 16606  
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tacaagataa agtatcatgt tgacggctcc gttgaaaggt acaaaagcag cctagtcgcg 180  
aaaggggtata cccaaatgga aggtttggac tttctagaca ccttctctcc ggtagcaaaa 240  
ctcaacctg tgcgtttact cctcgcccta actgcactta ataattggca cttacgacaa 300  
ctagatgtga ataacgctct cttcatggc gagcttaatg aagaagtcta catgcacatt 360  
ccttaggggtc tttctgtgga taatctcat cttgtttgtc gccttcaaca ttccttatat 420  
gggtcaaac aagccagtcg acaat 445

<210> 16607  
<211> 399  
<212> DNA  
<213> Glycine max

<225> unsure at all n locations  
<400> 16607

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agttttatgc aaccagaaaa tttctctgc tctcattgtt agagactaaa gcttaacttt 120  
caagcatgtg taagaactaa aatttacaat tttctcgaaa ctaaaactata aaatggaaac 180

aaccaagggg gaagatgaat aatttaacat caattataac ataccttttg aaaattagtc 240  
tcggatcat tttttttt cgccttgatg atattctgtga ggttggtcaat caggttcaac 300  
tcbaaggtat tttttctgatt aattntctgc aagcacacaa aataaaaaaaaa ataaaaaaaaat 360  
tattttctt atttggtttt ttgtgtgggg gggggggg 420

<210> 16608  
<211> 387  
<212> DNA  
<213> Glycine max

<23> unsure at all n locations  
<400> 16608

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agaactccaaag aagattcggc cagaaataca ggagaaggtc ctanagtctt catgagcctt 120  
acggtagatt cggngtcaat ggactaagta tgagacaaat tatttttgta catattagtt 180  
tagggtttca ttttttttg gtcttgtatt taaggctaca tagttaggy aggytacctt 240  
aataatgtag gatttttcaa ccttgtatt ttagggcaat tgactagttt tgtataaggg 300  
tagttttgta attacatgc attaagtga ctatttg 360

<210> 16609  
<211> 389  
<212> DNA  
<213> Glycine max

<400> 16609

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acccattggc ctctctgtgaa tgtttgtct gtgcgcttaa gattgctctg ttgggtcata 120  
cgatccttg ctccaatgag atttgttttc agtagctaca atattctttt cttttgagaa 180  
agtaattcct ctaacaaaga aattttggac acactaagta catgggaggc aatacaagga 240  
ggcaatatgc catacaacgg ttcacatagg gacataccta tgggtgaatg ataggaggaa 300  
ttgtaccaaa attcagccaa tgggaggaaa cggatccacc atttggttgc atcaactaca 360  
aagcaacaca agtaagttct taaacatct 389

<210> 16610  
<211> 407

<212> DNA  
<213> Glycine max

<400> 16610

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tgcacataat ttcttgggag taataactaac tccaacattt ttacagcttc taatgttarg 120  
attggtttgg ccaacaccttc gaaatgtaaa ctcaacgaat ttctctttaa agttatgtac 180  
ttagacattg ccttcattga cagatctcct tctatatttc attggccttc ctgtatggac 240  
ccttttatgt ggaggaacag ggcgagtata ttgagtctgg gtccaatatt ggggtccttg 300  
gaatgggtca ataaaatgct ggtatgtctt atgatagact tctattgaca gccactcatg 360  
aaagtgtcc tcatgcttcc ctcttttgag agttattgcc gcaatgg 407

<210> 16611  
<211> 374  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16611

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cttgttagaaa tcataggcat gtggagctcg cggaagtggc tgctatgcat ctaatggaat 120  
tagagcctga gagtgtctcg aacctcttcc tctgttccag cgtatatgct gatgtctggca 180  
aatggggaaa gtttgagagg gtcaagaaaa ggataaagaa gggaaaactg agaaaacttc 240  
aaggtttgag ttggatagaa aatttataac attatangta cgttggttgg tagaggccat 300  
angttttgct tcttcattga gagaagggca cactactgg tataattttt gatgtatcgn 360  
ttgtgctcct catg 374

<210> 16612  
<211> 488  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16612

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ccatgtcgac accaaacag ttgttttcca aggaataagg gaaatgaag tccggcaaga 120

gtaaagtagg ggotatagaa agcacatcct tcaatccagt gaaaacttgt tgcgccttag 180  
 atgaccactc aaaggggtac ttdataagta acctggttaa ataagctgca atggagccat 240  
 agcacgaat aaatcgggtga tagaaacccg agaggcccaa aaaactgtgc aaggccttgg 300  
 aggaatdagg tgggggtcac tgcataatgg ctgggacctt agccgacact ggttcaactc 360  
 ctgttgcaaa aaccaggtga cccaagaact caacttgttg ctgggcaaag gtgcacttgg 420  
 atagtttagg taagaactga ccatctagaa ggaactga 488

<213> 16613  
 <214> 447  
 <215> DNA  
 <216> Glycine max

<400> 16613  
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 aggtggagga cactatgaacg aaaacacaaat tcatggggct ccgaaaaagc gggttgagaat 120  
 ggagaattac actaagcaat cactacgcct agctccaaaac togaagggtg aggacacatg 180  
 aaagataacg caattcatgg ggctccgaaa agatttgagaa tggagaattg cactacgcaa 240  
 tcaactacgc taactccaaa cgcgaagggtg gaggacacat gaatgaaaac gcaattcatg 300  
 gggtccgaaa aagatttgaga atggagaatt gcactaagca atcaactacg atagctccaa 360  
 actcaaaagg ggaggacaca tgaacataac gcaattcatg ggccttcgga aagagtgaga 420  
 atgagagagag gaactaatca atcacta 447

<217> 16614  
 <218> 409  
 <219> DNA  
 <220> Glycine max

<223> unsure at all n locations  
 <400> 16614

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 tteetttcaa tttdaacctt cacttctctc tcaaaettct tcatatactc agcttttagcc 180  
 tgtgcactct tatgttcaa catagcaatg ttaggcatag gcaacaaatc aagaggagtc 240



aaaggattaa atccatacac tatctcanat ggtgaacaat tagttgtgct atggacagcc 300  
 cgattataag caaactcaac atgaggcana caggttcccc aagatttaag atttttcttt 360  
 aaaaagctcc taagcagtggt gcttaaagtc ctatggacta cctcagttt 400

<211> 14615  
 <211> 446  
 <212> DNA  
 <213> Glycine max

<400> 16616  
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 agtcagctat gtaacaaaat ggttgatcaa tgggttaaatg atctgaaatt ctgatactgg 180  
 ggaacagatgt cgtacaggat gtcacgacat cgcgcttcag aacatgcaga ttatatgtgt 240  
 gtccgttatga acagattaaa caagtaaata acacatgaga attgttaacc cagttccggtg 300  
 caaactcaac tacatctggg ggctaccaag ccaggaggga aatccactaa aatagtgtta 360  
 gttcaaggtc taacagccac tgtttacaac cttctcacct aaccactacc catgggaact 420  
 ctacctatga gccactctta gatatg 446

<210> 16616  
 <211> 447  
 <212> DNA  
 <213> Glycine max

<213> unsure at all n locations  
 <400> 16616

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 gtaaaagtagg ggctatagaa agcacatcct tcaatccagt gaaaacttgt tgcgccttag 180  
 atgaccactc aaaggggtac ttcataagta acctgggtta ataagctgca atggaggcat 240  
 agccacgaat aaatcgggtg tagaaacccg agaggcccaa aaaactgtgc aaggccttgg 300  
 agaaaagagg tgggggtcac tgcataatgg cttagacatt agccgacact ggttcaactc 360  
 cttgttccaa aaccaggtga cccaagaact caacttgttg ctgggcaaaag gttcacttgg 420  
 atagttttag gaagaactga ccatctta 447

<210> 16617  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16617

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 tatatatata tatagtgggtg tgtgtataaa atatagtcac ctgtcactat tttcatgcca 180  
 acaatatagt acaaataga taattaaatt acaaaaatta atgagggttaa taattatgta 240  
 gatgatgtaa aaattttetta aggggttttc tagactatca atgataggaa acaacaggat 300  
 ctgaaaacct atgggttttca caaacaatca ataaacaaca atagataatg atgtgtacct 360  
 tctccatag gaagacttgt nacttttcca tangaacttc tctc 404

<210> 16618  
 <211> 462  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16618

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 gnggcaagta aatttttctt ccatcagacc ttggatgcaa ctgtgctcgt atccccatgt 180  
 cagctagatc ttgacggata tcaagccat ccttcgtctt gccttgaatg tttaggagcg 240  
 tcccaatcac attatcacat acatttttct ccacatgcac aacatcaata caatgtctaa 300  
 cgtccagatc agaccagtat gggagatcaa agaaaatgga cctcttcttc catatgcaag 360  
 tcttaactctt atccttcttt tgggtcttct caaatacaat attcaggtgt tgaacccgct 420  
 cgtataacctg ttcaccagtc aacagtatcg gtgcaatata gt 462

<210> 16619  
 <211> 447  
 <212> DNA  
 <213> Glycine max

<400> 16619

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atgtgtcttg ttgtttcaac tagatgggta gttgatgtac gggctttttt ttaaaactga 120  
atataatgt aaatgttgtg tgtcttctt gtaaacacaa ttatgagta aaagtgtgt 180  
atgtaactaa aatttctcat ttgattggca atgatgagat tgatattgga aggggaacta 240  
atcaattga caattacag agatgggag ataccagatg gagttctcat tccaattga 300  
ttggtattct ttatgcatg tataatgcac ctacagcagt tcttgaagaa ttactgtcta 360  
aagatctac tggtaactca ttgaggtatgc tactgattgg ccaaaaagcat attgtcattt 420  
gatgtatttt acctatatg tatgaaa 447

<210> 16620

<211> 411

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16620

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aaatggccac caagtccaag agtgtgcaac aaaggaagat tcccaacctg gaaagggagt 180  
gtctccgaaa atgaattctc accaagatca agatacctca actgtgagag attttcaagt 240  
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aggtttccaa gttgataagg gagttcccca tctagatcat tctcacttag atcaagatat 360  
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<210> 16621

<211> 410

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16621

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ttacaacttg aacaacgttc ttttccccc aaattctccac aatagcatca agcaactcaa 180  
 aaagtctttc aattgtcttt acaaaatcag agtcatcaac agacttcaaa aatattgtac 240  
 caacttgaga gtaataaaaa aactaatgat gcatctttgt ttccaatcag tccatgcata 300  
 ggaataata gtaaacccat acttgaccca ttgtctcttg tggctttca tcaaat tgc 360  
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<310> 16622  
 <311> 399  
 <312> DNA  
 <313> Glycine max

<400> 16622  
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 actctgaagt agggcttcca ttaacaagaa tagagatgga agctgaagag aagcaggcct 180  
 ttatccatct aatccatctc tcatgaaacc ccattctctt catcatataa atgagaaatt 240  
 gccagaaac agaatacaaa gccttctcaa agtctacctt atagaccata caagacttct 300  
 tggatcttgc agctctctca atcactctat tagccacca aactccatga agcaaatgtc 360  
 tgccttttat atatgttgtc tgccttctat ctataagac 399

<210> 16623  
 <211> 456  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16623

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 gatgttaaca aaatgatgtt aacattaaca tgggtttctt gcaagaaaac gatgttaact 180  
 tctccacat taacatcaat tttctaaaaa ccgcatgtta aagaacttac gtaaacatcg 240  
 gttcttccaa aatcgatgtt aactaataaa tgttgacata gttttttcaa gaacggaggt 300  
 taatgaadaa tcaacttcat aacatcgaat tttcaaaaaa ccgcatgtta tgaatacaca 360

ttatttgcaa ttatgtcacc gcatttatct taacatcggt tntgtcaaaa atogatatta 400  
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<210> 16624  
 <211> 450  
 <212> DNA  
 <213> Glycine max

<400> 16624  
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 acataacctct ctaatagcaa agctacacct cttgagatga gaagctagag ctttagctaca 180  
 caccacctat aatagctaat ctacacctca tgacaaaata catgaaaata caaaaaaaat 240  
 cctactaca aagactactc aaaatgctc gaaatacaag gctaaaacct tatattacta 300  
 gaatggccaa aatacaagac ccaaacgaaa ggaaaaacct attctaatat ttacaaagat 360  
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 gggccttccc ttggatctct ggtccaatct 450

<210> 16625  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16625

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 gggccttcta catcggttgt aaaaccgatg ttgaaagcat cgatgttgaa tgtattgttg 180  
 ttaacatcgg ttttaaaaac tgatgttaac ataaaaatat taacatcagt ttataaata 240  
 accgatgtta taaagaaaga agtacaacaa aataagtgtg tgcgtgaggg acgttggcat 300  
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<210> 16626  
 <211> 396

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16626

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aaaagcgcat ttgggtcggt tcaaggagaa cttccctgaa agcaagagct tgaacgctgt 180
ttcgaggtga cccacatggt ccgccatggt tttactatag accaacacat catcgaagaa 240
gaagatgatg aatctgcgta agcagggctg aaagagctga ttcatagtag cttgaaaggt 300
tgatagagaa ttacacaaac caaagggcat tactcagaac tegttaatgc cttgatgggt 360
tctgaattcc gtttgtgtaa tatcatcatc tttcat 396
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<210> 16627  
<211> 390  
<212> DNA  
<213> Glycine max

<400> 16627

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